

2024



recod.ai
reasoning for complex data

PORTFOLIO 2009 – 2024

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01



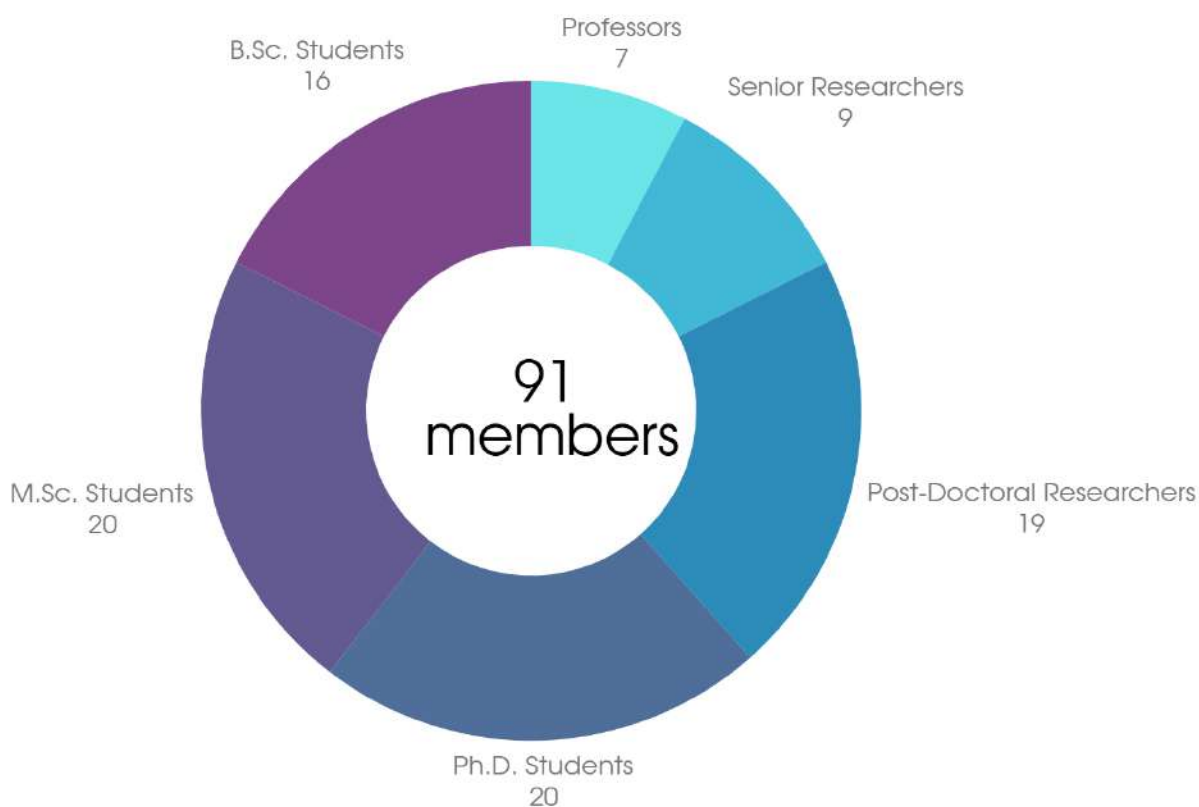
Introduction

The Artificial Intelligence (Recod.ai) Lab. was founded at the Institute of Computing (IC) of the University of Campinas (Unicamp) in 2009, to host and foster projects in Artificial Intelligence.

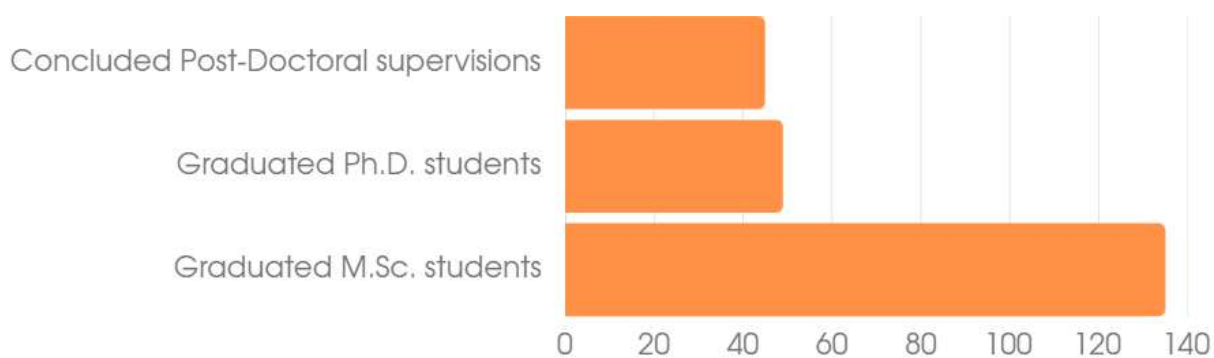
We work with complex data: multimedia, social networks, spatio-temporal, just to mention a few. Our main interests include Artificial Intelligence, Computer Vision, Information Retrieval, Machine Learning and Digital Forensics.

Recod.ai numbers

Recod.ai Members



Recod.ai graduated students and researchers



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Governance and Management

The governance policy of the center is guided by principles of transparency, inclusion, innovation, and scientific impact, ensuring the achievement of the objectives of Recod.ai. The organizational and management structure is developed to promote excellence in research, talent development, and technological innovation in the field of artificial intelligence, focusing on solving scientific and societal challenges.

1. Governance Model

The center adopts a collaborative governance model, involving researchers, students, and managers. This model is structured on three main levels:

1.1 Advisory Board

Composed of senior professors and researchers who guide strategic decisions, ensuring that the center stays aligned with emerging demands in the artificial intelligence sector and its mission to generate socioeconomic impact.

Prof. Anderson Rocha
Prof. Leandro Villas
Prof. Jacques Wainer
Prof. Marcelo Reis
Prof. Marcos Raimundo Medeiros
Prof. Paula Dornhoffer Costa
Prof. Sandra Eliza Fontes de Avila

1.2 Executive Board

Responsible for implementing strategic decisions.

Prof. Anderson Rocha

1.3 International Advisory Board

Focused on evaluating academic rigor and innovation, this committee ensures that the research conducted at the center adheres to high standards of quality. Focused on evaluating academic rigor and innovation, this committee ensures that the research conducted at the center adheres to high standards of quality.

Prof. Patrick Flynn, University of Notre Dame, USA
Prof. Edward Delp, Purdue University, USA
Prof. Mauro Barni, University of Siena, Italy

1.4 Technical and Administrative Team

Our technical and administrative team is composed of skilled professionals dedicated to supporting the success of our research projects.

- **Infrastructure / IT team:** Responsible for maintaining and optimizing our technological infrastructure, including network management, hardware maintenance, and software support.
 - Paulo Torres
 - Victor Martinez
- **Programmers:** Developers who work on creating, maintaining, and optimizing the software tools and platforms necessary for our research and innovation efforts.
 - Natielle Rabelo
 - Elayne Morais
- **Scientific Management Adherence:** Assists in optimizing workflows, ensuring that scientific processes are efficient and well-structured.
 - Anderson Rocha
 - Alexandre Ferreira
 - Emely Pujolli
- **Communication Advisors and Scientific Outreach:** Provides expertise in managing internal and external communications, ensuring that our research outputs and institutional activities are effectively shared with the public and stakeholders.
 - Thaís Capovilla
 - Rogério Bordini

- **Executive Management:** aims to coordinate and optimize internal activities and processes with external interfaces. This area seeks to ensure that results are delivered within the defined timelines and scopes, thereby enhancing the management of the diverse activities carried out by its researchers.
 - Miguel Lizárraga

2. Academic Organization

The academic organization of the center is structured in an interdisciplinary manner, with research groups focused on key areas of artificial intelligence. Each group is led by professors who are responsible for mentoring graduate students and overseeing research projects. The focus of the groups is on promoting collaboration across disciplines, also involving participation from companies and external partners.

3. Project and Partnership Management

The center has a robust project management structure that facilitates the creation of partnerships with academic institutions, companies, and government agencies. Projects are monitored from conception to implementation, with continuous oversight to ensure results align with Recod.ai's objectives.

4. Impact Assessment

The center's success is measured by indicators of academic, industrial, and social impact. These indicators include the quantity and quality of scientific

publications, the number of patents generated, the training of qualified human resources, and the implementation of artificial intelligence solutions that have a direct impact on strategic sectors such as health, energy, and the environment.

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Team Composition

Recod.ai brings together researchers from different fields of knowledge, involving all stages of teaching and research in higher education. The laboratory team consists of highly qualified researchers, including permanent professors, Post-Doctoral researchers, and a large group of Doctoral, Master's, and Undergraduate students. Currently, it has more than 100 members, in addition to more than 200 collaborators from around the world. Recod.ai researchers are mostly from Brazil and other LATAM countries. We also have several researchers from Europe, the United States, and China.

Professors

Prof. Anderson Rocha (*Current Coordinator*)

Prof. Leandro Villas

Prof. Jacques Wainer

Prof. Marcelo Reis

Prof. Marcos Raimundo Medeiros

Prof. Paula Dornhoffer Costa

Prof. Sandra Eliza Fontes de Avila

Former Professors

Prof. Adín Ramírez Rivera

Prof. Eduardo Alves do Valle Jr.

Prof. Ricardo da Silva Torres

Prof. Siome Klein Goldenstein

Senior Researchers

Ahmed Esmin, Ph.D

Alexandre Ferreira, Ph.D

Maiara Moreira Gonçalves, Ph.D.

Michael Macedo Diniz, Ph.D.

Manuel Antonio Castro Avila, Ph.D.

Paula Sampaio Meirelles, Ph.D

Pedro Ribeiro Mendes Júnior, Ph.D.

Victor Eduardo Martinez Abaunza, Ph.D

Vitor Hugo de Sousa Ferreira, Ph.D

Post-Doctoral Fellows

Ahmad Almazloum
Ana Carolina Monari
Ashish Kumar Loomba
Carlos Antônio Caetano Júnior
Catalina Jaramillo
Emely Pujolli da Silva
Fabio Carrella
Gabriel Bertocco
Gabriel Cirac Mendes Souza
Helena de Almeida Maia
João Phillipe Cardenuto
Judy Carolina Guevara Amaya
Jose Augusto Saraiva Lustosa Filho
Michael Oliveira da Cruz
Miguel Gustavo Lizárraga Espinosa
Murilo Garcia de Matos Amaral
Oscar Alonso Cuadros Linares
Rogério Augusto Bordini
Vitor Daniel Tessutti

Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Alessandra Davolio
Supervisor: Sandra Avila
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Sandra Avila
Supervisor: Anderson Rocha
Supervisor: Leandro Villas
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Marco Uchida

Ph.D. Students

Alexander Valle Rey Sánchez
Alexis Aldo Mendoza Villarroel
Athyron Machado Ribeiro
Bruno César de Oliveira Souza
Diego Alysson Braga Moreira
Elían Raquel Laura Riveros
Fillipe dos Santos Silva
Gabriel Oliveira dos Santos
Giovani de Almeida Valdrighi
Glauber Jose Vaz
Jhon Franko Jorge Velarde
Jing Yang
João Medrado Gondim
Levy Gurgel Chaves
Lucas Hideki Ueda
Matheus Corrêa Lindino

Supervisor: Marcelo Reis
Supervisor: Anderson Rocha
Supervisor: Marcos Raimundo
Supervisor: Anderson Rocha
Supervisor: Sandra Avila
Supervisor: Anderson Rocha
Supervisor: Marcelo Reis
Supervisor: Sandra Avila
Supervisor: Marcos Raimundo
Supervisor: Anderson Rocha
Supervisor: Leandro Villas
Supervisor: Anderson Rocha
Supervisor: Sandra Avila
Supervisor: Sandra Avila
Supervisor: Paula Costa
Supervisor: Anderson Rocha

Rebeca Padovani Ederli
Rodolfo Luis Tonoli
Soroor Salavati
Wladimir Arturo Garces Carrillo

Supervisor: Zanoni Dias
Supervisor: Paula Costa
Supervisor: Anderson Rocha
Supervisor: Marcelo Reis

M.Sc. Students

Alef Iury Siqueira Ferreira
Ana Carolina da Hora
Arthur Hendricks Mendes de Oliveira
Beatriz Cardoso Nascimento
Bruno Nogueira Renzo
Camila Machado de Araújo
Daniel Gardin Gratti
Eduarda Simonis Gavião
Elton Cardoso do Nascimento
Francisca Beatriz Precebes da Silva
Gian Franco Joel Condori Luna
Giorgio De Moraes Rossa
Jadson Crislan Santos Costa
Leonardo B. de M. Martins Marques
Luan de Oliveira Silveira
Luiz Fellipec Machi Pereira
Luiza Amador Pozzobon
Marco Antonio Cáceres Choque
Mikaeri Ohana Estevam Candido
Pedro Henrique Vaz Valois

Supervisor: Sandra Avila
Supervisor: Sandra Avila
Supervisor: Marcos Raimundo
Supervisor: Marcos Raimundo
Supervisor: Marcelo Reis
Supervisor: Anderson Rocha
Supervisor: Marcos Raimundo
Supervisor: Sandra Avila
Supervisor: Paula Costa
Supervisor: Sandra Avila
Supervisor: Marcelo Reis
Supervisor: Marcelo Reis
Supervisor: Anderson Rocha
Supervisor: Paula Costa
Supervisor: Jacques Wainer
Supervisor: Sandra Avila
Supervisor: Paula Costa
Supervisor: Marcelo Reis
Supervisor: Anderson Rocha
Supervisor: Sandra Avila

B.Sc. Students

Arthur Rezende Salles da Costa
Artur Alves Cavalcante de Barros
Caio Azevedo Dal Porto
Emily Silva Tomadon
Felipe Capiteli Bertocco
Gabriel de Alcantara Bomfim Silveira
Gabriel Freitas Pinheiro
Giovana Kerche Bonás
Giovanni Mesquita Micaroni
Juan David Nieto García

Supervisor: Leandro Villas
Supervisor: Sandra Avila
Supervisor: Marcos Raimundo
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Marcos Raimundo
Supervisor: Marcelo Reis
Supervisor: Anderson Rocha
Supervisor: Marcos Raimundo

Luana Felipe de Barros
Lucas Nogueira Roberto
Lucas Pilla Pimentel
Mateus de Padua Vicente
Pietro Fernandes Magaldi
Thaynara Beatriz Selasco de Matos

Supervisor: Sandra Avila
Supervisor: Anderson Rocha
Supervisor: Marcos Raimundo
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha
Supervisor: Anderson Rocha

Collaborators

Prof. Breno Bernard Nicolau de França
Prof. Esther Luna Colombini
Prof. Fernando José Von Zuben
Prof. Marco Uchida
Prof. Milton Shoiti Misuta
Prof. Nelson Fonseca
Prof. Rickson Coelho Mesquita
Prof. Zanoni Dias
Prof. Daniel Guidoni
Prof. Heitor Soares Ramos Filho
Elayne Cristina Cardoso de Moraes
Natielle Ferreira Rabelo
Thaís Garcez Capovilla (*Recod.ai Communication Advisor*)

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Recod.ai Alumni

This section presents a complete list of Recod.ai Alumni and the whereabouts of former Ph.D. students and Postdocs. We show below a summarized chart with significant data, demonstrating Recod.ai's relevance in the academic training of several students and researchers.

1. Alumni (Ph.D.s, Masters and Post-Doctoral researchers)

Afonso Menegola
Agnaldo Aparecido Esmael
Ahmed Esmin
Alberto Arruda de Oliveira
Alceu Emanuel Bissoto
Alexandre Esteves Almeida
Alexandre Mello Ferreira.
Alexandre Tachard Passos
Allan da Silva Pinto
Amaury Bosso André
Anselmo Castelo Branco Ferreira
Antoine Barrault
Antonio Carlos Theophilo Costa Jr.
Antônio da Luz Junior
Aurea Soriano Vargas
Bahram Lavi
Bruna Alberton
Camila Steffane Fernandes Teixeira de Moura
Cícera Vanessa Marques Sampaio Sidrim
Cleo Zanella Billa.
Cristiane Aparecida Betta
Cristina Cavalcante
Daniel Bastos Moraes
Daniel Carlos Guimarães Pedronette
Daniel Henriques Moreira
Daniele Cristina Uchôa Maia Rodrigues
Danielle Furtado dos Santos Dias.
Darwin Danilo Saire Pilco
Décio Gonçalves de Aguiar Neto
Didier Vega-Oliveros
Diego Chavez Escalante
Douglas Parra
Ederlon Barbosa Cruz

Edson Riberto Bollis
Eduardo Alves do Valle Junior
Eduardo dos Santos Pereira
Eduardo Fernando Cianci Gomes
Eduardo Seiti de Oliveira
Eliezer de Souza da Silva
Elisangela Silva dos Santos
Elizabeth Akemi Nishio
Emerson MuraroErik Keiji Tokuda
Eric Carvalho Oakley
Eric Velten
Erikson Freitas de Moraes
Ewerton Almeida Silva
Fabiana Bellette Gil
Fabio Augusto Faria
Fabio de Lima Bezerra.
Fabio Grassiotto.
Fábio Kenji Masago
Fábio Vinícius Moreira Perez
Felipe dos Santos Pinto de Andrade
Felipe Leonel Grijalva Arévalo
Fernanda Alcântara Andaló
Fernanda Brandão Silva
Fernando Cesar Akune
Fernando de Goes
Filipe de Oliveira Costa
Fillipe Dias Moreira de Souza
Flavio Nicastro
Geise Kelly da Silva Santos
George Gondim Ribeiro
Giovani Chiachia
Giovani Frondana
Glauber Costa
Greice Cristina Mariano
Guilherme Adriano Fôlego
Guilherme Moraes Armigliatto
Gustavo Estrela de Matos
Hilário Seibel Jr.

Ícaro Cavalcante Dourado
Ivan Passoni
Ivan Sendin
Javier A. Vargas Munoz
Jefersson Alex dos Santos
Jhosimar George Arias Figueroa
Jomara Mota Bindá
Jonlenes Silva de Castro
José Carlos Conti
Jose L. Flores Campana
José Ramon Trindade Pires
Juan Felipe Hernández Albarracín
Julia Amaya Tavares
Juliana Medeiros Destro
Junior John Fabián Arteaga
Jurandy Gomes de Almeida Junior
Karina Olga Bog
Katia Cristina Lage dos Santos
Laurindo Neto
Leonardo Garcia Tampelini
Leopoldo Andre Dutra Lusquino Filho
Levy Gurgel Chaves
Lin Tzy Li
Lucas Moutinho Bueno
Lucas Oliveira David
Luciene Cristina Alves Rinaldi
Luis Augusto Martins Pereira
Luís Gustavo Lorgus Decker
Manuel Alberto Córdova Neira
Marcelo Batista de Lima Junior
Marcelo de Miranda Coelho
Marcelo Zampieri
Marcos Vinícius Adão Teixeira
Marcos Vinicius Mussel Cirne
Marcus Vinícius Benedito
Marina Atsumi Oikawa
Matheus Gustavo Alves Sasso
Maurício Lisboa Perez

Maycon Leone Maciel Pe
Michael Macedo Diniz
Michel Silva Fornaciali
Michele Bittencourt Rodrigues
Mijail Ronald Vidal Vargas
Milton Daniel Urrutia Salinas.
Mohammed Manzur Hossain
Nadia Puchalski Koziévitch.
Nathalia Menini Cardoso dos Santos
Otávio Augusto Bizetto Penatti
Pablo Alejandro Fonseca Arroyo
Paul Joseph Hidalgo Flores
Paulo Gurgel Pinheiro
Paulo Henrique Pisani
Paulo Roberto Rocha Vitorino
Pedro Henrique Vaz Valois
Pedro Ribeiro Mendes Jr.
Pedro Tabacof
Priscila Saboia
Rafael de Oliveira Werneck
Rafael Medeiros Jacomel de Oliveira Silva
Rafael Soares Padilha
Raphael Prattes
Raysa Masson Benatti.
Ricardo Luís Zanetti Panaggio
Rodrigo Carvalho Rezende
Rodrigo Tripodi Calumby
Rogerio Araujo Medeiros.
Rosa Yuliana Gabriela Paccotacya Yanque
Samuel Fadel
Sandra Eliza Fontes de Avila
Sheila Maricela Pinto Cáceres
Siovani Cintra Felipussi
Stephane de Freitas Schwarz
Thamiris Florindo Coelho
Thiago Anzolin de Godoi
Thiago Cavalcante
Thiago Resek F. dos Anjos

Thiago Ribas Bella.
Thomas Beltrame
Tiago José de Carvalho
Ticiana Oniki Toffoli
Tito Barbosa Rezende
Vandalis Giansante
Vanessa Cerávolo Gurgel Silva
Víctor Eduardo Martínez Abaunza
Vinicius de Lima Dantas
Vinícius de Paulo Souza Ribeiro
Vitor Hugo De Sousa Ferreira
Vladimir Jaime Rocca Layza
Waldir Rodrigues de Almeida
Waldir Sabino Junior

2. Whereabouts (Ph.D.s and Post-Doctoral researchers)

1. Didier A. Vega-Oliveros. *Assistant Professor, Federal University of São Paulo.*
2. Amir Jalilifard. *Researcher, University of Campinas.*
3. Gabriel Bertocco. *Researcher, University of Campinas.*
4. Michael Diniz. *Assistant Professor, Federal Institute of Technology – Sao Jose dos Campos, Brazil.*
5. Ahmed Esmin. *Professor, Federal University of Lavras – Lavras, Brazil.*
6. Manuel Castro Avila. *Researcher, University of Campinas & Shell, Brazil.*
7. Alberto Arruda de Oliveira. *Data Scientist, Samsung Electronics, Brazil.*
8. Rafael de Oliveira Werneck. *Researcher, University of Campinas & Shell, Brazil.*
9. Pedro Ribeiro Mendes Jr. *Researcher, University of Campinas & Shell, Brazil.*
10. Alexandre Mello Ferreira. *Researcher, University of Campinas & Shell, Brazil.*

11. Allan da Silva Pinto. *Senior Research Scientist, National Center for Research in Energy and Materials (CNPEM), Brazil.*
12. Anselmo Castelo Branco Ferreira. *Research Scholar, University of Siena, Italy.*
13. Antonio Carlos Theophilo Costa Jr. *Researcher, Microsoft Research, USA.*
14. Aurea Soriano Vargas. *Research Professor, University of Engineering and Technology (UTEC), Peru.*
15. Bahram Lavi. *Researcher, Fundação Getúlio Vargas (Rio de Janeiro), Brazil.*
16. Bruno Malveira Peixoto. *Data Scientist, BeeGol, Brazil.*
17. Cristina Célia Barros Cavalcante. *Researcher, Cargill, Brazil.*
18. Daniel Henriques Moreira. *Assistant Professor, Loyola University, USA.*
19. Eduardo dos Santos Pereira. *Researcher, SESI, Brazil.*
20. Erikson Freitas de Moraes. *Assistant Professor, Federal University of Technology – Paraná, Brazil.*
21. Fabio A. Faria. *Assistant Professor, Federal University of Sao Paulo, Brazil.*
22. Fernanda Alcântara Andaló. *Data Scientist, LEGO, Denmark.*
23. Geise Kelly Silva Santos. *Researcher, Eldorado Institute, Brazil.*
24. Giovani Chiachia. *Founder and CTO, Saffe Payments, Germany.*
25. Hilário Seibel Jr. *Assistant Professor, Federal Institute of Espírito Santo, Brazil.*
26. Leo Sampaio Ferraz Ribeiro. *Professor, University of Sao Paulo (Sao Carlos), Brazil.*
27. Ivan Passoni. *Data Science Consultant, Sao Paulo, Brazil.*
28. José Ramon Trindade Pires. *Data Scientist, Maritaca.ai, Brazil.*
29. Leopoldo A. D. L. Filho. *Assistant Professor, State Univ. of São Paulo, Unesp.*
30. Luis A. Martins Pereira. *Assistant Professor, Federal Univ. of São Paulo, Brazil.*
31. Marcelo Ferreira Zampieri. *Researcher, IPA Independent Project Analyst, Brazil.*
32. Marcelo Zampieri. *Research Scientist, University of Campinas, Brazil.*
33. Marcos Cirne. *Research Scientist, Heriot-Watt University, Scotland.*
34. Marina Atsumi Oikawa. *Research Scientist, Ministry of Health, Brazil.*
35. Mohammed Manzur Hossain. *Consultant, Australia.*

36. Otávio Penatti. *Research Scientist, Samsung Electronics, Brazil.*
37. Paulo Henrique Pisani. *Assistant Professor, Federal University of ABC, Brazil.*
38. Rafael Soares Padilha. *Researcher, Microsoft Research, Brazil.*
39. Raphael Felipe de Carvalho Prates. *Researcher, Unico, Brazil.*
40. Sandra Eliza Fontes de Avila. *Assistant Professor, University of Campinas, Brazil.*
41. Siovani Felipussi. *Associate Professor, Federal University of São Carlos, Brazil.*
42. Tiago José de Carvalho. *CTO, Inovia, Brazil.*
43. Victor Martinez Abaunza. *Research Scientist, University Campinas, Brazil.*
44. Vitor Hugo De Sousa Ferreira. *Research Scientist, Embraer, Brazil.*
45. Alceu Bissoto. *Postdoctoral researcher at University of Bern, Switzerland.*
46. Michel Fornaciali. *Data Science Specialist at Hospital Albert Einstein; Assistant Professor at Insper Instituto de Ensino e Pesquisa, São Paulo, Brazil.*
47. Marcos Vinicius Mussel Cirne. *Postdoctoral Research Associate, Newcastle University - Newcastle Upon Tyne, United Kingdom.*
48. Didier Vega-Oliveros. *Research collaborator at the Center for Complex Networks and Systems Research at Indiana University, USA.*

05



On-going Research Projects

Recod.ai develops scientific projects in collaboration with various fields of knowledge, involving partners from the private sector and collaborators from universities and research institutes around the world. Our projects include the participation of undergraduate, master's, and doctoral students, researchers from universities and multinational companies, and faculty members from national and international universities.

1. H.IAAC

Artificial Intelligence and Cognitive Architectures Hub

Principal Researcher: Leandro Villas

Duration: 2021 - 2024

Funding Support: Eldorado Institute, Motorola and Softex

Description: The Artificial Intelligence and Cognitive Architectures Hub aims to develop and disseminate knowledge about technologies capable of integrating different intelligence resources into mobile devices, making them skilled in decision-making.

2. Viva Bem

Artificial Intelligence for Health and Well-being Hub

Principal Researcher: Anderson Rocha

Duration: 2022 - 2027

Funding Support: Samsung

Description: Viva Bem's main goal is to promote disruptive research in AI for health and wellbeing, focusing on technological applications for continuous monitoring of individuals' health through wearable devices. This project aims to develop technological solutions focused on prospective, proactive and personalized systems (prognosis based on continuous monitoring of the individual's health and definition of therapeutic possibilities based on individual-specific data).

3. Machine Learning for Energy

Principal Researcher: Anderson Rocha

Duration: 2019 - 2027

Funding Support: Shell

Description: Artificial intelligence and machine learning for the analysis of complex and multispectral production data, establishment of causal links, effects of interventions, and hybrid modeling in Pre-Salt fields. This project aims to address heterogeneous data to identify potential failures and improve the management of wells, reservoirs, and facilities to achieve higher recovery rates.

4. Language Models Applied to Software Development

Principal Researcher: Marcos Raimundo

Duration: 2024 -

Funding Support: InMetrics

Description: This project, in partnership with Inmetrics, aims to foster research in Generative Artificial Intelligence for source code creation and context analysis in automatic client interactions within a service desk environment. More specifically, the two main objectives are to enhance the following aspects: (1) improve the customization of source code, given the partner's need to adapt to different contexts (custom libraries/APIs, application horizons, programming languages, and styles); (2) identifying the correct reason from a set of predefined contact reasons and extracting information that can trigger a response to the client.

5. HORUS

Artificial Intelligence Techniques to Detect and Forestall Synthetic Realities

Principal Researcher: Anderson Rocha

Duration: 2024 - 2029

Funding Support: Sao Paulo Research Foundation (FAPESP)

Description: The Horus Project is an ambitious and multidisciplinary endeavor aimed at contributing to the landscape of artificial intelligence (AI) research and to digital media trust. Comprising five distinct and interconnected research lines, the project seeks to address critical challenges in AI development, such as enhancing model generalization, enabling cross-modal understanding, and promoting self-supervised learning paradigms.

6. Araceli

Artificial Intelligence in the Fight Against Child Sexual Abuse

Principal Researcher: Sandra Avila

Duration: 2023 - 2025

Funding Support: Sao Paulo Research Foundation (FAPESP)

Description: The project aims to investigate how scene recognition and representation can be leveraged for the classification of CSAM (Child Sex Abuse Material), while respecting the limitations associated with working with this type of material: low-data regimes, restricted testing, and the less powerful hardware available to law enforcement agents. Additionally, data-centered Artificial Intelligence techniques will be utilized to produce a high-quality, well-documented benchmark for evaluating CSAM classification approaches, which will be made available to the research community through model submissions.

7. Artificial Intelligence for Marketing Research

Principal Researchers: Marcelo Reis and Paula Costa

Duration: 2024 - 2026

Funding Support: Ministry of Science, Technology and Innovation / Softex

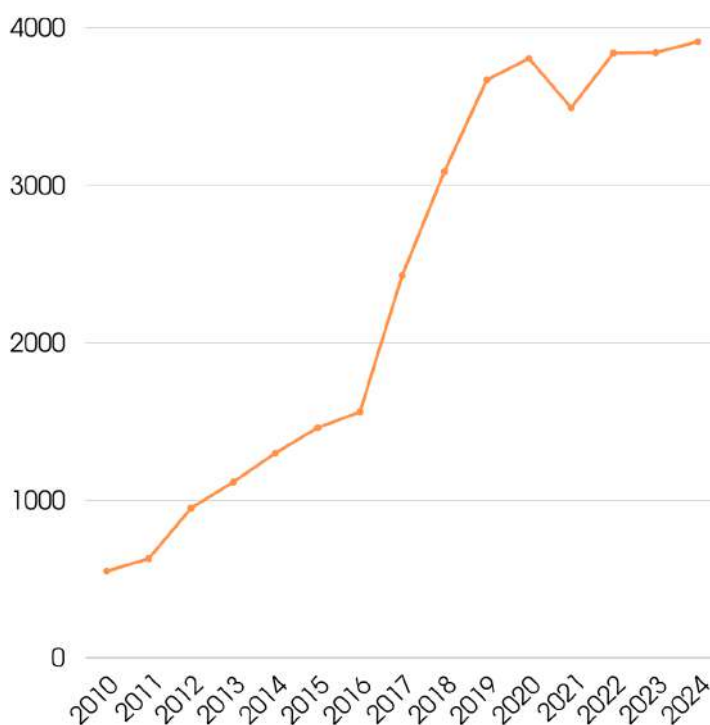
Description: Project of national interest in the ICT areas (MCTI-PPI). The project focuses on developing intelligent agents for mobile platforms based on Cognitive Architecture technology. The development of intelligent agents requires research and knowledge generation in areas such as cognitive architecture, natural language processing, reinforcement learning, knowledge representation, and distributed computing.



Citation Summary

Since 2009, Recod.ai's impact, as measured by Google Scholar citations, has been on a steady rise. In 2024, our current seven professors collectively received **3,911** citations. In 2023, our professors alone garnered **3,842** citations. In 2022, Recod.ai's professors got **3,839** citations, and in 2021, the number was **3,491**. The Lab saw **3,805** citations in 2020 and **3,668** the year before. Despite some overlap from internal collaborations, these numbers remain impressive. In 2019, we also hit **3,668** citations, following **3,087** in 2018, **2,427** in 2017, and **1,561** in 2016. Going further back, we recorded **1,461** citations in 2015, **1,300** in 2014, **1,166** in 2013, and **950** in 2012. In 2011, the count was **630**, and in 2010, it was **550**.

Recod.ai citations (2010 - 2024) on Google Scholar



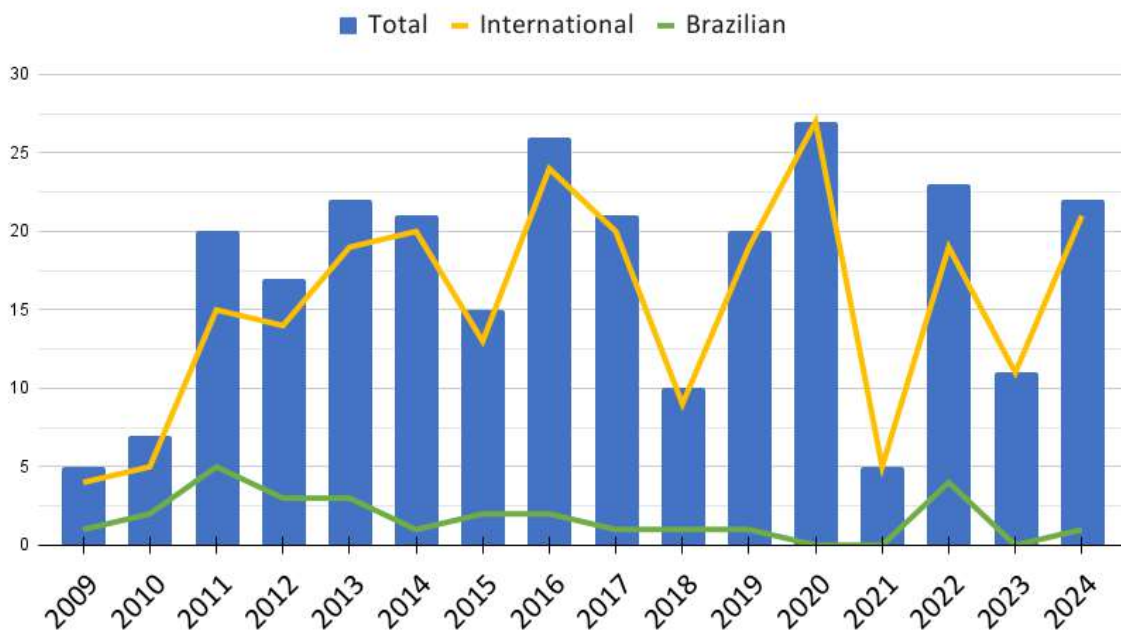
The increasing number of citations received by our professors highlights the quality and recognition of the Recod.ai's work in the academic community. Citations are a key indicator of the impact and relevance of research, as they demonstrate that other scholars and researchers find the work valuable enough to reference in their own studies. This growing citation count not only reflects the excellence of the research conducted but also suggests successful dissemination and communication of their findings. Furthermore, it underscores the collaborative efforts and rigorous methodologies adopted by the laboratory team. Other factors contributing to this recognition include the strategic choice of research topics, engagement in interdisciplinary projects, and active participation in academic conferences and journals, which broaden the reach and influence of their work. Thus, the rise in citations is a testament to the laboratory's commitment to advancing knowledge and its standing in the global research landscape.

07

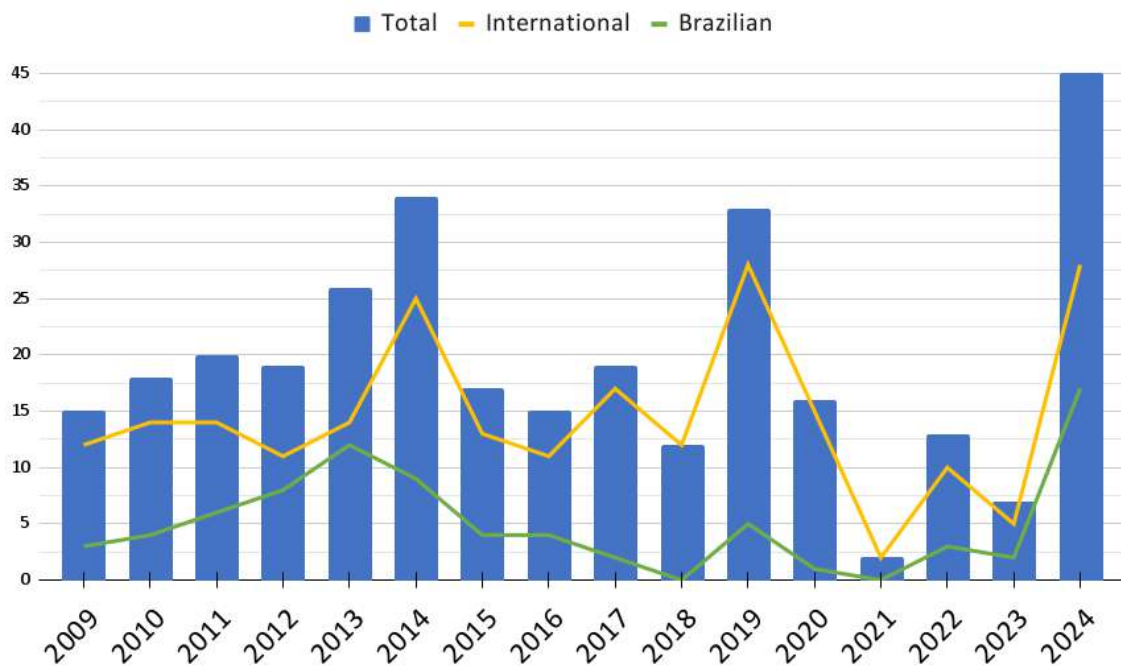


Publications

JOURNAL PUBLICATIONS 2009-2024



CONFERENCE PUBLICATIONS 2009-2024



1. Journals

2024

KONG, CHENQI ; ZHENG, KEXIN ; LIU, YIBING ; WANG, SHIQI ; ROCHA, ANDERSON ; LI, HAOLIANG . M $\$^{\wedge}\{3\}$ FAS: An Accurate and Robust MultiModal Mobile Face Anti-Spoofing System. IEEE Transactions on Dependable and Secure Computing, v. 21, p. 1-16, 2024

LUSQUINO FILHO, LEOPOLDO ; PADILHA, Rafael ; DINIZ, MICHAEL MACEDO ; BERTOCCO, GABRIEL C. ; ANDALO, FERNANDA ; ROCHA, ANDERSON . Realidades Sintéticas: surgimento, impactos e desafios. Revista Lanterna, v. 2, p. 35, 2024.

CARDENUTO, João Phillipe ; MOREIRA, Daniel ; ROCHA, ANDERSON . Unveiling scientific articles from paper mills with provenance analysis. PLoS One, v. 19, p. e0312666, 2024.

NAPOLI, OTÁVIO ; DUARTE, DAMI ; ALVES, PATRICK ; SOTO, DARLINNE HUBERT PALO ; DE OLIVEIRA, HENRIQUE EVANGELISTA ; ROCHA, ANDERSON ; BOCCATO, Levy ; BORIN, Edson . A benchmark for domain adaptation and generalization in smartphone-based human activity recognition. Scientific Data, v. 11, p. 1-16, 2024.

NAVARRO, LUIZ CLAUDIO ; AZEVEDO, ANA ; MATOS, ANÍBAL ; ROCHA, ANDERSON ; OZÓRIO, RODRIGO . Predicting weight dispersion in seabass aquaculture using Discrete Event System simulation and Machine Learning modeling. AQUACULTURE REPORTS, v. 38, p. 102315, 2024.

RIBEIRO MENDES, PEDRO ; SALAVATI, Soroor ; LINARES, OSCAR ; MOREIRA GONÇALVES, MAIARA ; FERREIRA ZAMPIERI, MARCELO ; DE SOUSA FERREIRA, VITOR HUGO ; CASTRO, MANUEL ; DE OLIVEIRA WERNECK, RAFAEL ; MOURA, Renato ; MORAIS, ELAYNE ; ESMIN, AHMED ; LUSQUINO, LEOPOLDO ; SCHIOZER, DENIS JOSÉ ; FERREIRA, ALEXANDRE ; DAVÓLIO, ALESSANDRA ; ROCHA, ANDERSON . Rock-type classification: A (critical) machine-learning perspective. COMPUTERS & GEOSCIENCES, v. 193, p. 105730, 2024.

CIRAC, GABRIEL ; AVANSI, GUILHERME DANIEL ; FARFAN, JEANFRANCO ; SCHIOZER, DENIS JOSÉ ; ROCHA, ANDERSON . Few-shot learning and modeling of 3D reservoir properties for predicting oil reservoir production. NEURAL COMPUTING & APPLICATIONS, v. 36, p. 14527-14541, 2024.

LIU, HUI ; WANG, WENYA ; SUN, HAO ; ROCHA, ANDERSON ; LI, HAOLIANG . Robust Domain Misinformation Detection via Multi-Modal Feature Alignment. IEEE Transactions on Information Forensics and Security, v. 19, p. 793-806, 2024.

MOREIRA, Daniel ; MARCEL, Sébastien ; ROCHA, ANDERSON . Synthetic Realities and Artificial Intelligence-Generated Contents. IEEE SECURITY & PRIVACY, v. 22, p. 7-10, 2024.

FARFAN, JEANFRANCO ; CIRAC, GABRIEL ; AVANSI, GUILHERME DANIEL ; MASCHIO, CÉLIO ; SCHIOZER, DENIS JOSÉ ; ROCHA, ANDERSON . End-to-end dimensionality reduction and regression from 3D geological uncertainties to estimate oil reservoir simulations. APPLIED SOFT COMPUTING, v. 162, p. 111799, 2024.

Wainer, Jacques. An empirical evaluation of imbalanced data strategies from a practitioner's point of view. EXPERT SYSTEMS WITH APPLICATIONS, v. 256, p. 124863, 2024.

SUE, CHRISTINA A. ; RIVAS, SALVADOR ; Wainer, Jacques . Estimating the Racial Wealth Gap in Brazil. Socius, v. 10, p. 1, 2024.

HADDADI, SEYED JAMAL ; FARSHIDVARD, AIDA ; SILVA, FILLIPE DOS SANTOS ; DOS REIS, JULIO CESAR ; DA SILVA REIS, MARCELO . Customer churn prediction in imbalanced datasets with resampling methods: A comparative study. EXPERT SYSTEMS WITH APPLICATIONS, v. 246, p. 123086, 2024.

BERTO, LETÍCIA ; COSTA, PAULA ; SIMÕES, ALEXANDRE ; GUDWIN, RICARDO ; COLOMBIN, ESTHER . A motivational-based learning model for mobile robots. Cognitive Systems Research, v. 1, p. 101278, 2024.

DIAS, GABRIEL ; BERTO, RODRIGO POMMOT ; OLIVEIRA, MATEUS ; UEDA, LUCAS ; DERTKIGIL, SERGIO ; COSTA, PAULA D.P. ; SHAMAEI, AMIRMOHAMMAD ; BUGLER, HANNA ; SOUZA, ROBERTO ; HARRIS, ASHLEY ; RITTNER, LETICIA . Spectro-ViT: A vision transformer model for GABA-edited MEGA-PRESS reconstruction using spectrograms. MAGNETIC RESONANCE IMAGING, v. 113, p. 110219, 2024.

BERNARDO, B. ; COSTA, P.D.P. . A Speech-Driven Talking Head based on a Two-Stage Generative Framework. Transactions Of The Association For Computational Linguistics, v. 1, p. 580-586, 2024.

DE SOUZA, ALINE PRISCILA ; SOUZA GOMEZ, CARLA CRISTINA ; GONÇALVES DE OLIVEIRA RIBEIRO, MARIA ANGELA ; DORNHOFFER PARO COSTA, PAULA ; RIBEIRO, JOSÉ DIRCEU . Correlations between ambient air pollution and the prevalence of hospitalisations and emergency room visits for respiratory diseases in children: a systematic review. ARCHIVES OF DISEASE IN CHILDHOOD, v. 1, p. archdischild-2, 2024.

DE LELLIS ROSSI, LEONARDO ; ROHMER, ERIC ; DORNHOFFER PARO COSTA, PAULA ; COLOMBINI, ESTHER LUNA ; DA SILVA SIMÕES, ALEXANDRE ; GUDWIN, RICARDO RIBEIRO . A Procedural Constructive Learning Mechanism with Deep Reinforcement Learning for Cognitive Agents. JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS (DORDRECHT. ONLINE), v. 110, p. 38, 2024.

BARROS, PEDRO H. ; GUEVARA, JUDY C. ; Villas, Leandro ; GUIDONI, DANIEL ; FONSECA, NELSON L. S. DA ; Ramos, Heitor S. . A Novel Federated Meta-Learning Approach for Discriminating Sedentary Behavior From Wearable Data. IEEE Internet of Things Journal, v. 11, p. 31909-31916, 2024.

DE SOUZA, ALLAN M. ; MACIEL, FILIPE ; DA COSTA, JOAHANNES B.D. ; BITTENCOURT, LUIZ F. ; CERQUEIRA, EDUARDO ; Loureiro, Antonio A.F. ; Villas, Leandro A. . Adaptive client selection with personalization for communication efficient Federated Learning. Ad Hoc Networks, v. 157, p. 103462, 2024.

MACIEL, FILIPE ; DE SOUZA, ALLAN M. ; BITTENCOURT, LUIZ F. ; Villas, Leandro A. ; BRAUN, TORSTEN . Federated learning energy saving through client selection. *Pervasive and Mobile Computing*, v. 103, p. 101948, 2024.

BISSOTO, Alceu ; BARATA, Catarina ; VALLE, Eduardo ; Avila, Sandra . Even small correlation and diversity shifts pose dataset-bias issues. *PATTERN RECOGNITION LETTERS*, v. 99, p. 1, 2024.

2023

VEGA-OLIVEROS, DIDIER A. ; NASCIMENTO, JOSÉ ; LAVI, Bahram ; ROCHA, ANDERSON . Real-world-events data sifting through ultra-small labeled datasets and graph fusion. *APPLIED SOFT COMPUTING*, v. 132, p. 109865, 2023.

THEOPHILO, ANTONIO ; GIOT, Romain ; ROCHA, ANDERSON . Authorship Attribution of Social Media Messages. *IEEE TRANSACTIONS ON COMPUTATIONAL SOCIAL SYSTEMS*, v. 10, p. 10-23, 2023.

MARTÍNEZ, VÍCTOR ; ROCHA, ANDERSON . The Golem: A General Data-Driven Model for Oil & Gas Forecasting Based on Recurrent Neural Networks. *IEEE Access*, v. 11, p. 41105-41132, 2023.

BARNI, Mauro ; CAMPISI, PATRIZIO ; DELP, EDWARD J. ; DOËRR, GWENAËL ; FRIDRICH, JESSICA ; MEMON, Nasir ; PÉREZ-GONZÁLEZ, FERNANDO ; ROCHA, ANDERSON ; VERDOLIVA, LUISA ; WU, MIN . Information Forensics and Security: A quarter-century-long journey. *IEEE SIGNAL PROCESSING MAGAZINE*, v. 40, p. 67-79, 2023.

DANAEI, SHAHRAM ; CIRNE, Marcos ; MALEKI, MASOUD ; SCHIOZER, DENIS J. ; ROCHA, ANDERSON ; DAVOLIO, Alessandra . All-in-one proxy to replace 4D seismic forward modeling with machine learning algorithms. *Geoenergy Science and Engineering*, v. 222, p. 211460-20, 2023.

BERTOCCO, GABRIEL CAPITELI ; THEOPHILO, ANTONIO ; ANDALÓ, FERNANDA ; DE REZENDE ROCHA, ANDERSON . Leveraging Ensembles and Self-Supervised Learning for Fully-Unsupervised Person

Re-Identification and Text Authorship Attribution. IEEE Transactions on Information Forensics and Security, v. 18, p. 3876-3890, 2023.

CASTRO, MANUEL ; MENDES JÚNIOR, PEDRO RIBEIRO ; Soriano-Vargas, Aurea ; DE OLIVEIRA WERNECK, RAFAEL ; MOREIRA GONÇALVES, MAIARA ; LUSQUINO FILHO, LEOPOLDO ; MOURA, Renato ; ZAMPIERI, MARCELO ; LINARES, OSCAR ; FERREIRA, VITOR ; FERREIRA, ALEXANDRE ; DAVÓLIO, ALESSANDRA ; SCHIOZER, Denis ; ROCHA, ANDERSON . Time series causal relationships discovery through feature importance and ensemble models. Scientific Reports, v. 13, p. 11402-20, 2023.

GUARDIEIRO, VITÓRIA ; Raimundo, Marcos M. ; POCO, JORGE . Enforcing fairness using ensemble of diverse Pareto-optimal models. DATA MINING AND KNOWLEDGE DISCOVERY, v. 1, p. 1-29, 2023.

DE CARVALHO, LUIZ SÉRGIO FERNANDES ; ALEXIM, GUSTAVO ; NOGUEIRA, ANA CLAUDIA CAVALCANTE ; FERNANDEZ, MARTA DURAN ; REZENDE, TITO BARBOSA ; Avila, Sandra ; REIS, RICARDO TORRES BISPO ; SOARES, ALEXANDRE ANDERSON MUNHOZ ; SPOSITO, ANDREI CARVALHO . The framing of time-dependent machine learning models improves risk estimation among young individuals with acute coronary syndromes. Scientific Reports, v. 13, p. 1021, 2023.

MIRIKHARAJI, ZAHRA ; ABHISHEK, KUMAR ; BISSOTO, Alceu ; BARATA, Catarina ; Avila, Sandra ; VALLE, Eduardo ; CELEBI, M. EMRE ; HAMARNEH, Ghassan . A survey on deep learning for skin lesion segmentation. MEDICAL IMAGE ANALYSIS, v. 88, p. 102863, 2023.

RODRIGUES, MICHELE BITTENCOURT ; FERREIRA, VICTÓRIA PEDRAZZOLI ; CLARO, RAFAEL MOREIRA ; MARTINS, ANA PAULA BORTOLETTO ; Avila, Sandra ; HORTA, PAULA MARTINS . Revolutionizing food advertising monitoring: A machine learning-based method for automated classification of food videos. PUBLIC HEALTH NUTRITION, v. 30, p. 1-28, 2023.

2022

ROLLMANN, Klaus ; Soriano-Vargas, Aurea ; CIRNE, Marcos ; DAVOLIO, Alessandra ; SCHIOZER, DENIS JOSÉ ; ROCHA, ANDERSON . A three-way convolutional network to compare 4D seismic data and reservoir simulation models in different domains. JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, v. 208, p. 109260, 2022.

WERNECK, Rafael de Oliveira ; PRATES, RAPHAEL ; MOURA, Renato ; GONÇALVES, MAIARA MOREIRA; CASTRO, MANUEL ; Soriano-Vargas, Aurea ; RIBEIRO MENDES JÚNIOR, PEDRO ; HOSSAIN, M. MANZUR ; ZAMPIERI, MARCELO FERREIRA ; FERREIRA, ALEXANDRE ; DAVÓLIO, ALESSANDRA ; SCHIOZER, Denis ; ROCHA, ANDERSON . Data-driven deep-learning forecasting for oil production and pressure. JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, v. 210, p. 109937, 2022.

ROLLMANN, Klaus ; Soriano-Vargas, Aurea ; ALMEIDA, Forlan ; DAVOLIO, Alessandra ; SCHIOZER, DENIS JOSE ; ROCHA, ANDERSON . Convolutional Neural Network Formulation to Compare 4-D Seismic and Reservoir Simulation Models. IEEE Transactions on Systems Man Cybernetics-Systems, v. 52, p. 3052-3065, 2022.

RIBEIRO MENDES JUNIOR, PEDRO ; BOULT, Terrance E. ; Wainer, Jacques ; ROCHA, ANDERSON . Open-Set Support Vector Machines. IEEE Transactions on Systems Man Cybernetics-Systems, v. 52, p. 3785-3798, 2022.

MALEKI, MASOUD ; CIRNE, Marcos ; SCHIOZER, DENIS JOSÉ ; DAVOLIO, Alessandra ; ROCHA, ANDERSON . A machine-learning framework to estimate saturation changes from 4D seismic data using reservoir models. GEOPHYSICAL PROSPECTING, v. 70, p. 1388-1409, 2022.

KONG, CHENQI ; ZHENG, KEXIN ; WANG, SHIQI ; ROCHA, ANDERSON ; LI, HAOLIANG . Beyond the Pixel World: A Novel Acoustic-Based Face Anti-Spoofing System for Smartphones. IEEE Transactions on Information Forensics and Security, v. 17, p. 3238-3253, 2022.

MOREIRA, Daniel ; CARDENUTO, João Phillipe ; SHAO, RUITING ; BAIREDDY, SRIRAM ; COZZOLINO, DAVIDE ; GRAGNANIELLO, DIEGO ;

ABD-ALMAGEED, WAEL ; BESTAGINI, Paolo ; TUBARO, Stefano ; ROCHA, ANDERSON ; SCHEIRER, WALTER ; VERDOLIVA, LUISA ; DELP, Edward . SILA: a system for scientific image analysis. Scientific Reports, v. 12, p. 12:18306-21, 2022.

MASSACCI, FABIO ; SABETTA, ANTONINO ; MIRKOVIC, JELENA ; MURRAY, TOBY ; OKHRAVI, HAMED ; MANNAN, MOHAMMAD ; ROCHA, ANDERSON ; BODDEN, ERIC ; GEER, DANIEL E. . -Free- as in Freedom to Protest?. IEEE SECURITY & PRIVACY, v. 20, p. 16-21, 2022.

CARDENUTO, JOÃO P. ; ROCHA, ANDERSON . Benchmarking Scientific Image Forgery Detectors. SCIENCE AND ENGINEERING ETHICS, v. 28, p. 35, 2022.

SANTOS, GEISE ; WANDERLEY, MARCELO ; TAVARES, TIAGO ; ROCHA, ANDERSON . A multi-sensor human gait dataset captured through an optical system and inertial measurement units. Scientific Data, v. 9, p. 545:1-10, 2022.

SANTOS, GEISE ; TAVARES, TIAGO ; ROCHA, ANDERSON . Reliability and generalization of gait biometrics using 3D inertial sensor data and 3D optical system trajectories. Scientific Reports, v. 12, p. 8414-15, 2022.

MANDELLI, SARA ; COZZOLINO, DAVIDE ; CANNAS, EDOARDO D. ; CARDENUTO, JOAO P. ; MOREIRA, Daniel ; BESTAGINI, Paolo ; SCHEIRER, Walter J. ; ROCHA, ANDERSON ; VERDOLIVA, LUISA ; TUBARO, Stefano ; DELP, EDWARD J. . Forensic Analysis of Synthetically Generated Western Blot Images. IEEE Access, v. 10, p. 59919-59932, 2022.

KONG, CHENQI ; CHEN, BAOLIANG ; LI, HAOLIANG ; WANG, SHIQI ; ROCHA, ANDERSON ; KWONG, SAM . Detect and Locate: Exposing Face Manipulation by Semantic- and Noise-Level Telltales. IEEE Transactions on Information Forensics and Security, v. 17, p. 1741-1756, 2022.

PADILHA, Rafael ; SALEM, TAWFIQ ; WORKMAN, SCOTT ; ANDALO, Fernanda A. ; ROCHA, ANDERSON ; JACOBS, NATHAN . Content-Aware Detection of Temporal Metadata Manipulation. IEEE Transactions on Information Forensics and Security, v. 17, p. 1316-1327, 2022.

SEIBT, T. ; VEGA-OLIVEROS, DIDIER A. ; ROCHA, A. . Automatização no fact-checking: pensando a prática de verificação a partir de agrupamentos semânticos de frases verificadas pelo Projeto Comprova. REVISTA FRONTEIRAS (ONLINE), v. 24, p. 121-136, 2022.

DIAS, William ; ANDALÓ, FERNANDA ; PADILHA, Rafael ; BERTOCCO, Gabriel ; ALMEIDA, WALDIR ; COSTA, PAULA ; ROCHA, ANDERSON . Cross-dataset emotion recognition from facial expressions through convolutional neural networks. JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, v. 82, p. 103395, 2022.

PEIXOTO, M.L.M. ; MOTA, E. ; MAIA, A.H.O. ; LOBATO, W. ; SALAHUDDIN, M.A. ; BOUTABA, R. ; VILLAS, L.A. . FogJam: A Fog service for detecting traffic congestion in a continuous data stream VANET. Ad Hoc Networks, v. 1, p. 103046, 2022.

DE SOUZA, ALLAN M. ; OLIVEIRA, HORACIO F. ; ZHAO, ZHONGLIANG ; BRAUN, TORSTEN ; LOUREIRO, A. A. F. ; VILLAS, Leandro Aparecido . Enhancing Sensing and Decision-Making of Automated Driving Systems With Multi-Access Edge Computing and Machine Learning. Ieee Intelligent Transportation Systems Magazine, v. 14, p. 44-56, 2022.

SANTOS, G. O. ; COLOMBINI, E. L. ; AVILA, Sandra . #PraCegoVer: A Large Dataset for Image Captioning in Portuguese. Data, v. 7, p. 1, 2022.

BOLLIS, EDSON ; MAIA, HELENA ; PEDRINI, HELIO ; Avila, Sandra . Weakly supervised attention-based models using activation maps for citrus mite and insect pest classification. COMPUTERS AND ELECTRONICS IN AGRICULTURE, v. 195, p. 106839-1, 2022.

BARRETO, JOAQUIM ; WOLF, VANEZA ; BONILHA, ISABELLA ; LUCHIARI, BEATRIZ ; LIMA, MARCUS ; OLIVEIRA, ALESSANDRA ; VITTE, SOFIA ; MACHADO, GABRIELA ; CUNHA, JESSICA ; BORGES, CYNTHIA ; MUNHOZ, DANIEL ; FERNANDES, VICENTE ; KIMURA-MEDORIMA, SHEILA TATSUMI ; BREDER, IKARO ; FERNANDEZ, MARTA DURAN ; QUINAGLIA, THIAGO ; OLIVEIRA, RODRIGO B. ; CHAVES, FERNANDO ; ARIETA, CARLOS ; GUERRA-JÚNIOR, GIL ; Avila, Sandra ; NADRUZ, WILSON ; CARVALHO, LUIZ

SERGIO F. ; SPOSITO, Andrei C. . Rationale and design of the Brazilian diabetes study: a prospective cohort of type 2 diabetes. CURRENT MEDICAL RESEARCH AND OPINION, v. 38, p. 1-7, 2022.

BARRERA, JUNIOR ; HASHIMOTO, RONALDO F. ; HIRATA, NINA S. T. ; HIRATA, R. ; Reis, Marcelo S. . From Mathematical Morphology to machine learning of image operators. SÃO PAULO JOURNAL OF MATHEMATICAL SCIENCES, v. 16, p. 616-657, 2022.

Raimundo, Marcos M.; NONATO, LUIS GUSTAVO ; POCO, JORGE . Mining Pareto-optimal counterfactual antecedents with a branch-and-bound model-agnostic algorithm. DATA MINING AND KNOWLEDGE DISCOVERY, v. 37, p. 1, 2022.

2021

CIRINO, CAROLINA; GOBATTO, CLAUDIO A.; PINTO, ALLAN S.; TORRES, RICARDO S; HARTZ, CHARLINI S.; AZEVEDO, PAULO H. S. M.; MORENO, MARLENE A.; AND MANCHADO-GOBATTO, FÚLVIA B. Complex network model indicates a positive effect of inspiratory muscles pre-activation on performance parameters in a judo match. Scientific Reports, 11(1):11148, May 2021.

DELAFIORI, JEANY; NAVARRO, LUIZ CLÁUDIO; SICILIANO, RINALDO FOCACCIA; DE MELO, GISELY CARDOSO; BUSANELLO, ESTELA NATACHA BRANDT; NICOLAU, JOSÉ CARLOS; SALES, GEOVANA MANZAN; DE OLIVEIRA, ARTHUR NOIN; VAL, FERNANDO FONSECA ALMEIDA; DE OLIVEIRA, DIOGO NOIN; EGUTI, ADRIANA; DOS SANTOS, LUIZ AUGUSTO; DALÇÓQUIO, TALIA FALCÃO; BERTOLIN, ADRIADNE JUSTI; ABREU-NETTO, REBECA LINHARES; SALSOSO, ROCIO; BAÍA-DA-SILVA, DJANE; MARCONDES-BRAGA, FABIANA G; SAMPAIO, VANDERSON SOUZA; JUDICE, CARLA CRISTINA; COSTA, FABIO TRINDADE MARANHÃO; DURÁN, NELSON; PERROUD, MAURICIO WESLEY; SABINO, ESTER CERDEIRA; LACERDA, MARCUS VINICIUS GUIMARÃES, et al. ; Covid-19 Automated Diagnosis and Risk Assessment through Metabolomics and Machine Learning. ANALYTICAL CHEMISTRY, v. 93, p. 2471-2479, 2021.

ESMAEL, A.; DA SILVA, H.; JI, T.; AND TORRES, R. "Non-Technical Loss Detection in Power Grid Using Information Retrieval Approaches: A Comparative Study," IEEE Access 9: 40635-40648, 2021.

RODRIGUES, C. M.; SORIANO-VARGAS, A.; LAVI, B.; ROCHA, A.; & DIAS, Z. (2021). Manifold Learning for Real-World Event Understanding. IEEE Transactions on Information Forensics and Security, 16, 2957-2972.

RODRÍGUEZ SANTANDER, MIGUEL; HERNÁNDEZ ALBARRACÍN, JUAN; RAMÍREZ RIVERA, ADÍN. On the Pitfalls of Learning with Limited Data: A Facial Expression Recognition Case Study. EXPERT SYSTEMS WITH APPLICATIONS, v. V, p. 114991, 2021

2020

ALBARRACIN, J.; OLIVEIRA, R.; HIROTA, M.; DOS SANTOS, J.; AND TORRES, R. "A Soft Computing Approach for Selecting and Combining Spectral Bands," Remote Sensing 12(14): 2267, 2020.

ALMEIDA, ALEXANDRE G.; MERLIN, MURILO; PINTO, ALLAN; TORRES, RICARDO DA S.; AND CUNHA, SERGIO A. Performance-level indicators of male elite handball teams. International Journal of Performance Analysis in Sport, 20(1):1–9, November 2020.

ALMEIDA, WALDIR R.; ANDALÓ, FERNANDA A.; PADILHA, RAFAEL; BERTOCCO, GABRIEL; DIAS, WILLIAM; TORRES, RICARDO DA S.; WAINER, JACQUES; ROCHA, ANDERSON. Detecting face presentation attacks in mobile devices with a patch-based CNN and a sensor-aware loss function. PLoS One, v. 15, p. e0238058-24, 2020.

CARVALHO, LUIZ SÉRGIO F.; GIOPPATO, SILVIO; FERNANDEZ, MARTA D.; TRINDADE, BERNARDO C.; SILVA, JOSÉ CARLOS Q. E.; MIRANDA, REBECA G. S.; SOUZA, BETO J. R. M.; NADRUZ JUNIOR, W. ; AVILA, SANDRA; SPOSITO, ANDREI C. Machine Learning Improves the Identification of Individuals With Higher Morbidity and Avoidable Health Costs After Acute Coronary Syndromes. VALUE IN HEALTH, v. 23, p. 1570-1579, 2020.

CAVALCANTE, CRISTINA C.B.; MASCHIO, CÉLIO; SCHIOZER, DENIS; ROCHA, ANDERSON. A stochastic learning-from-data approach to the history-matching problem. *ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE*, v. 94, p. 103767, 2020.

CÓRDOVA, M.; PINTO, A.; PEDRINI, H.; AND TORRES, R. D. S. "Pelee-Text++: A Tiny Neural Network for Scene Text Detection," in *IEEE Access*, vol. 8, pp. 223172-223188, 2020.

DIAS, D.; PINTO, A.; DIAS, U.; LAMPARELLI, R.; LE MAIRE, G.; AND TORRES, R. D. S. A multirepresentational fusion of time series for pixelwise classification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 13(1):4399–4409, July 2020.

DIAS, D.; DIAS, U.; MENINI, N.; LAMPARELLI, R.; LE MAIRE, G.; AND TORRES, R. "Image-Based Time Series Representations for Pixelwise Eucalyptus Region Classification: A Comparative Study," in *IEEE Geoscience and Remote Sensing Letters*, 17(8): 1450-1454, 2020.

DIAS-AUDIBERT, FLÁVIA LUÍSA ; NAVARRO, LUIZ CLAUDIO ; DE OLIVEIRA, DIOGO NOIN ; DELAFIORI, JEANY ; MELO, CARLOS FERNANDO ODIR RODRIGUES ; GUERREIRO, TATIANE MELINA ; ROSA, FLÁVIA TRONCON ; PETENUCCI, DIEGO LIMA ; WATANABE, MARIA ANGELICA EHARA ; VELLOSO, LICIO AUGUSTO ; ROCHA, ANDERSON REZENDE ; CATHARINO, RODRIGO RAMOS. Combining Machine Learning and Metabolomics to Identify Weight Gain Biomarkers. *FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY*, v. 8, p. 1-11, 2020.

FADEL, S.; AND TORRES, R. "Neural relational inference for disaster multimedia retrieval," in *Multimedia Tools and Applications*, 79(35-36): 26735-26746, 2020.

FLORES CAMPANA, J. L. ET AL., "On the Fusion of Text Detection Results: A Genetic Programming Approach," in *IEEE Access*, vol. 8, pp. 81257-81270, 2020.

FOLEGO, GUILHERME; WEILER, MARINA; CASSEB, R. F.; PIRES, RAMON; ROCHA, ANDERSON. Alzheimer's Disease Detection Through Whole-Brain

3D-CNN MRI. FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, v. 8, p. 1193-1207, 2020.

IQBAL, MD TAUHID BIN; RYU, BYUNGYONG; RAMIREZ RIVERA, ADIN; MAKHMUDKHUJAEV, FARKHOD; CHAE, OKSAM; BAE, SUNG-HO. Facial Expression Recognition with Active Local Shape Pattern and Learned-Size Block Representations. IEEE Transactions on Affective Computing, v. V, p. 1-1, 2020.

LI, HAOLIANG; WANG, SHIQI; HE, PEISONG; ROCHA, ANDERSON. Face Anti-Spoofing With Deep Neural Network Distillation. IEEE Journal of Selected Topics in Signal Processing, v. 14, p. 933-946, 2020.

LIMA, ESTELA DE OLIVEIRA; NAVARRO, LUIZ CLAUDIO; MORISHITA, KAREN NODA; KAMIKAWA, CAMILA MIKA; RODRIGUES, RAFAEL GUSTAVO MARTINS; DABAJA, MOHAMED ZIAD; DE OLIVEIRA, DIOGO NOIN; DELAFIORI, JEANY; DIAS-AUDIBERT, FLÁVIA LUÍSA; RIBEIRO, MARTA DA SILVA; VICENTINI, ADRIANA PARDINI; ROCHA, ANDERSON; CATHARINO, RODRIGO RAMOS . Metabolomics and Machine Learning Approaches Combined in Pursuit for More Accurate Paracoccidioidomycosis Diagnoses. mSystems, v. 5, p. 1-12, 2020.

PADILHA, RAFAEL; MAZINI, CAROLINE; ANDALO, FERNANDA ALCANTARA; BERTOCCO, GABRIEL; DIAS, ZANONI; ROCHA, ANDERSON. Forensic Event Analysis: From Seemingly Unrelated Data to Understanding. IEEE SECURITY & PRIVACY, v. 18, p. 23-32, 2020.

PADILHA, RAFAEL; ANDALÓ, FERNANDA A.; BERTOCCO, GABRIEL; ALMEIDA, WALDIR R.; DIAS, WILLIAM; RESEK, THIAGO; TORRES, RICARDO DA S.; WAINER, JACQUES; ROCHA, ANDERSON. Two-tiered face verification with low-memory footprint for mobile devices. IET Biometrics, v. 9, p. 205-215, 2020.

PINTO, A.; GOLDENSTEIN, S.; FERREIRA, A.; CARVALHO, T.; PEDRINI, H.; AND ROCHA, A. Leveraging shape, reflectance and albedo from shading for face presentation attack detection. IEEE Transactions on Information Forensics and Security, 15:3347–3358, April 2020.

QUISPE, R.; TTITO, D.; RAMÍREZ RIVERA, A.; PEDRINI, H. Multi-stream networks and ground-truth generation for crowd counting. *International Journal of Electrical and Computer Engineering Systems*, v. V, p. 1, 2020.

RAMÍREZ RIVERA, A.; KHAN, A.; BEKKOUCH, I.; SHEIKH, T. Anomaly Detection Based on Zero-Shot Outlier Synthesis and Hierarchical Feature Distillation. *IEEE Transactions on Neural Networks and Learning Systems*, p. 1-11, 2020.

ROCHA, ANDERSON. The Information Forensics and Security Technical Committee: Then, Now, and in the Future [In the Spotlight]. *IEEE SIGNAL PROCESSING MAGAZINE*, v. 37, p. 175-176, 2020.

SANTOS, GEISE; PISANI, PAULO HENRIQUE; LEYVA, ROBERTO; LI, CHANG-TSUN; TAVARES, TIAGO; ROCHA, ANDERSON . Manifold learning for user profiling and identity verification using motion sensors. *PATTERN RECOGNITION*, v. 106, p. 107408-16, 2020.

SANTOS, THIAGO T. ; DE SOUZA, LEONARDO L. ; DOS SANTOS, ANDREZA A. ; AVILA, SANDRA . Grape detection, segmentation, and tracking using deep neural networks and three-dimensional association. *COMPUTERS AND ELECTRONICS IN AGRICULTURE*, v. 170, p. 105247, 2020.

SILVA, EWERTON; TORRES, RICARDO DA S.; PINTO, ALLAN; LI, LIN TZY; VIANNA, JOSÉ EDUARDO S.; AZEVEDO, RODOLFO; AND GOLDENSTEIN, SIOME. Application-oriented retinal image models for computer vision. *Sensors*, 20(13):3746, July 2020.

SILVA, E.; TORRES, R.; ALBERTON, B.; MORELLATO, L.; AND SILVA, T. "A Change-Driven Image Foveation Approach for Tracking Plant Phenology," *Remote Sensing* 12(9): 1409, 2020.

SORIANO-VARGAS, A.; ROLLMANN, K.; ALMEIDA, F.; DAVOLIO, A.; HAMANN, B.; SCHIOZER, D. J.; & ROCHA, A. (2020). A synthetic case study of measuring the misfit between 4D seismic data and numerical reservoir simulation models through the Momenta Tree. *Computers & Geosciences*, 145, 104617.

VERDE, SEBASTIANO; RESEK, Thiago; MILANI, SIMONE; ROCHA, ANDERSON . Ground-to-Aerial Viewpoint Localization via Landmark Graphs Matching. IEEE SIGNAL PROCESSING LETTERS, v. 27, p. 1490-1494, 2020.

2019

ALBERTON, B.; ET AL. Leafing Patterns and Drivers across Seasonally Dry Tropical Communities. Remote Sensing, v. 11(19), 2267, 2019.

CACEFFO, RICARDO; EDUARDO VALLE; RICKSON MESQUITA; RODOLFO DE AZEVEDO. Assessment of Predictive Power of The Felder & Silverman Learning Styles Model on Students? Performance in an Introductory Physics Course. European Journal of Physics Education, v. 10, p. 1-22, 2019.

CAVALCANTE, CRISTINA C. B.; MASCHIO, CÉLIO; SANTOS, ANTONIO ALBERTO; SCHIOZER, DENIS; ROCHA, ANDERSON. A continuous learning algorithm for history matching. ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, v. 85, p. 543-568, 2019.

DOS SANTOS, C.; ET AL. Classification of Crops, Pastures, and Tree Plantations along the Season with Multi-Sensor Image Time Series in a Subtropical Agricultural Region. Remote Sensing, v. 11(3), 334, 2019.

FERREIRA, ALEXANDRE; CARVALHO, TIAGO; ANDALO, FERNANDA A.; ROCHA, ANDERSON. Counteracting the contemporaneous proliferation of digital forgeries and fake news. ANAIS DA ACADEMIA BRASILEIRA DE CIÊNCIAS (ONLINE), v. 91, p. e20180149, 2019.

FERREIRA, ANSELMO; FELIPUSSI, SIOVANI C.; PIRES, Ramon; AVILA, SANDRA ; SANTOS, GEISE ; LAMBERT, JORGE ; HUANG, Jiwu ; ROCHA, ANDERSON . Eyes in the Skies: A Data-Driven Fusion Approach to Identifying Drug Crops From Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, v. 12, p. 4773-4786, 2019.

GOMES, L.; TORRES, R.; AND CÔRTEZ, M. Bug report severity level prediction in open source software: A survey and research opportunities. *Information & Software Technology*, v. 115, p. 58-78, 2019.

DOURADO, I.; PEDRONETTE, D.; AND TORRES, R. Unsupervised graph-based rank aggregation for improved retrieval. *Information Processing and Management* v. 56(4), p. 1260-1279, 2019.

DOURADO, I.; GALANTE, R.; GONÇALVES, M.; AND TORRES, R. Bag of textual graphs (BoTG): A general graph-based text representation model. *Journal of the Association for Information Science and Technology*, v. 70(8), p. 817-829, 2019.

KUEHLKAMP, A.; PINTO, A.; ROCHA, A.; BOWYER, K. W.; AND CZAJKA, A. Ensemble of multi-view learning classifiers for cross-domain iris presentation attack detection. *IEEE Transactions on Information Forensics and Security*, 14(6):1419–1431, June 2019.

OLIVEIRA, ALBERTO; OAKLEY, ERIC; DA SILVA TORRES, RICARDO; ROCHA, ANDERSON. Relevance prediction in similarity-search systems using extreme value theory. *JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION*, v. 60, p. 236-249, 2019.

MENDES JUNIOR, PEDRO RIBEIRO; BONDI, LUCA; BESTAGINI, PAOLO; TUBARO, STEFANO; ROCHA, ANDERSON. An In-Depth Study on Open-Set Camera Model Identification. *IEEE Access*, v. 7, p. 180713-180726, 2019.

MENINI, N.; ET AL. A Soft Computing Framework for Image Classification Based on Recurrence Plots. *IEEE Geoscience and Remote Sensing Letters*, v. 16(2), p. 320-324, 2019.

MUÑOZ, J.; GONÇALVES, M.; DIAS, Z.; AND TORRES, R. Hierarchical Clustering-Based Graphs for Large Scale Approximate Nearest Neighbor Search. *Pattern Recognition*, v. 96, 2019.

NOGUEIRA, K.; ET AL. Spatio-Temporal Vegetation Pixel Classification by Using Convolutional Networks. *IEEE Geoscience and Remote Sensing Letters*, v. 16(10), p. 1665-1669, 2019.

PEDRONETTE, D.; VALEM, L.; ALMEIDA, J.; AND TORRES, R. Multimedia Retrieval Through Unsupervised Hypergraph-Based Manifold Ranking. *IEEE Transactions on Image Processing*, V. 28(12), P. 5824-5838, 2019.

PIRES, RAMON; AVILA, SANDRA; WAINER, JACQUES; VALLE, EDUARDO; ABRAMOFF, MICHAEL D.; ROCHA, ANDERSON. A Data-driven Approach to Referable Diabetic Retinopathy Detection. *ARTIFICIAL INTELLIGENCE IN MEDICINE*, v. 96, p. 93-106, 2019.

RODRIGUES, D.; MOURA, F.; CUNHA, S.; AND TORRES, R. "Graph visual rhythms in temporal network analyses," *Graphical Models*, v. 103, 2019.

VALLE, EDUARDO; FORNACIALI, MICHEL; MENEGOLA, AFONSO; TAVARES, JULIA; VASQUES BITTENCOURT, FLÁVIA ; LI, LIN TZY; AVILA, SANDRA . Data, Depth, and Design: Learning Reliable Models for Skin Lesion Analysis. *NEUROCOMPUTING*, v. 383, p. 303-313, 2019.

WERNECK, R.; RAVEAUX, R.; TABBONE, S.; AND TORRES, R. Learning cost function for graph classification with open-set methods. *Pattern Recognition Letters*, v. 128, p. 8-15, 2019.

2018

ARAUJO, LUCAS M.; OLIVEIRA, FABÍOLA M. C.; FACCIPIERI, JORGE H.; COIMBRA, TIAGO A. A.; AVILA, SANDRA; TYGEL, MARTIN; BORIN, EDSON. Detecção de estruturas em dados sísmicos com Deep Learning. *BOLETIM SBGF*, v. 104, p. 18-21, 2018.

CORDOVA NEIRA, MANUEL ALBERTO; MENDES JR., PEDRO RIBEIRO; ROCHA, ANDERSON; TORRES, RICARDO. Data-Fusion Techniques for Open-Set Recognition Problems. *IEEE Access (ACCESS)*, To Appear, 2018.

ESMAEL, A.; DOS SANTOS, J.; AND TORRES, R. On the ensemble of multiscale object-based classifiers for aerial images: a comparative study. *Multimedia Tools and Applications*, v. 77(19), p. 24565-24592, 2018.

LI, HAOLIANG; HE, PEISONG; WANG, SHIQI; ROCHA, ANDERSON; JIANG, XINGHAO; KOT, ALEX C. Learning Generalized Deep Feature Representation for Face Anti-spoofing. IEEE Transactions on Information Forensics and Security (T.IFS), To Appear, 2018.

MARIANO, G.; STAGGEMEIER, V.; MORELLATO, L.; AND TORRES, R. Multivariate cyclical data visualization using radial visual rhythms: A case study in phenology analysis. *EcolOGICAL Informatics*, v. 46, p. 19-35, 2018.

MELO, CARLOS FERNANDO ODIR RODRIGUES NAVARRO, LUIZ CLAUDIO DE OLIVEIRA, DIOGO NOIN GUERREIRO, TATIANE MELINA LIMA, ESTELA DE OLIVEIRA DELAFIORI, JEANY DABAJA, MOHAMED ZIAD RIBEIRO, MARTA DA SILVA DE MENEZES, MAICO RODRIGUES, RAFAEL GUSTAVO MARTINS MORISHITA, KAREN NODA ESTEVES, CIBELE ZANARDI DE AMORIM, ALINE LOPES LUCAS AOYAGUI, CAROLINE TIEMI PARISE, PIERINA LORENCINI MILANEZ, GUILHERME PAIER DO NASCIMENTO, GABRIELA MANSANO RIBAS FREITAS, ANDRÉ RICARDO ANGERAMI, RODRIGO COSTA, FÁBIO TRINDADE MARANHÃO ARNS, CLARICE WEIS RESENDE, MARIANGELA RIBEIRO AMARAL, ELIANA JUNIOR, RENATO PASSINI RIBEIRO-DO-VALLE, CAROLINA C. , et al.; A Machine Learning Application Based in Random Forest for Integrating Mass Spectrometry-Based Metabolomic Data: A Simple Screening Method for Patients With Zika Virus. *FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY*, v. 6, p. 1-11, 2018.

MOREIRA, DANIEL; AVILA, SANDRA; PEREZ, MAURICIO; MORAES, DANIEL; TESTONI, VANESSA; VALLE, EDUARDO; GOLDENSTEIN, SIOME; ROCHA, ANDERSON. Multimodal Data Fusion for Sensitive Scene Localization. *Information Fusion*, v. 45, p. 307-323, 2018.

MOREIRA, D.; BHARATI, A.; BROGAN, J.; PINTO, A.; PAROWSKI, M.; BOWYER, K. W.; FLYNN, P. J.; ROCHA, A.; AND SCHEIRER, W. J. Image provenance analysis at scale. *IEEE Transactions on Image Processing*, 27(12):6109–6123, Dec 2018.

MOREIRA, DANIEL; AVILA, SANDRA; PEREZ, MAURICIO; MORAES, DANIEL ; TESTONI, VANESSA ; VALLE, EDUARDO ; GOLDENSTEIN, SIOME ; ROCHA,

ANDERSON. Multimodal Data Fusion for Sensitive Scene Localization. Information Fusion, v. P99, p. 1-18, 2018.

NAVARRO, LUIZ; NAVARRO, ALEXANDRE K.W.; ROCHA, ANDERSON, DAHAB, RICARDO. Connecting the Dots: Toward Accountable Machine-Learning Printer Attribution Methods. Journal of Visual Communication and Image Representation (JVCI), To Appear, 2018.

NAVARRO, LUIZ; NAVARRO, ALEXANDRE K. W.; GREGIO, ANDRE; ROCHA, ANDERSON; DAHAB, RICARDO. Leveraging Ontologies and Machine-learning Techniques for Malware Analysis into Android Permissions Ecosystems. COMPUTERS & SECURITY, v. 78, p. 429-453, 2018.

NOGUEIRA, K.; ET AL. Exploiting ConvNet Diversity for Flooding Identification. IEEE Geoscience and Remote Sensing Letters, v. 15(9), p. 1446-1450, 2018.

PEREIRA, LUÍS A. M.; TORRES, RICARDO DA SILVA. Semi-Supervised Transfer Subspace for Domain Adaptation. PATTERN RECOGNITION, v. 75, p. 235-249, 2018.

ROCHA, ANDERSON; LI, SHUJUN; KUO, C.-C. JAY; PIVA, ALESSANDRO; HUANG, JIWU. Data-driven multimedia forensics and security. JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, v. 55, p. 447-448, 2018.

RODRIGUES MELO, CARLOS FERNANDO; NAVARRO, LUIZ CLAUDIO; OLIVEIRA, DIOGO NOIN; GUERREIRO, TA- TIANE MELINA; LIMA, ESTELA DE OLIVEIRA; DELAFIORI, JEANY; DABAJA, MOHAMED ZIAD; RIBEIRO, MARTA DA SILVA; DE MENEZES, MAICO; MARTINS RODRIGUES, RAFAEL GUSTAVO; MORISHITA, KAREN NODA; ESTEVES, CIBELE ZANARDI; DE AMORIN, ALINE LOPES LUCAS; AOYAGUI, CAROLINE TIEMI; PARISE, PIERINA LORENCINI; MILANEZ, GUILHERME PAIER; NASCIMENTO, GABRIELA; FREITAS, ANDR E RICARDO RIBAS; ANGERAM, RODRIGO; COSTA, F ABIO TRINDADE MARANHÃO; WEIS ARNS, CLARICE; RESENDE, MARIANGELA RIBEIRO; ELIANA AMARAL; PASSINO JR, RENATO; RIBEIRO-DO-VALLE, CAROLINA C.; MILANEZ, HELAINE; MORETTI, MARIA LUIZA; PROENCA-MODENA, JOSE LUIZ; AVILA, SANDRA; ROCHA, ANDERSON; AND CATHARINO, RODRIGO RAMOS. A Machine Learning Application

Based in Random Forest for Integrating Mass Spectrometry-Based Metabolomic Data: A Simple Screening Method for Patients With Zika Virus. *Frontiers in Bioengineering and Biotechnology (FRONTIERS)*, To Appear, 2018.

EABRA OLIVEIRA, DANIELA; EPSTEIN, JEREMY; KUROSE, JAMES; ROCHA, ANDERSON . Cybersecurity and Privacy Issues in Brazil: Back, Now, and Then [Guest Editors' Introduction]. *IEEE SECURITY & PRIVACY*, v. 16, p. 10-12, 2018.

SHEN, BINGYU; FORSTALL, CHRISTOPHER W.; ROCHA, ANDERSON; SCHEIRER, WALTER J.. Practical Text Phylogeny for Real-World Settings. *IEEE Access*, v. 6, p. 41002-41012, 2018.

SILVA, F. B.; WERNECK, R. O.; GOLDENSTEIN, S. K.; TABBONE, S.; TORRES, R. DA S. Graph-based Bag-of-Words for Classification. *PATTERN RECOGNITION*, v. 74, p. 266-285, 2018.

VITORINO, PAULO; AVILA, SANDRA ELIZA FONTES; PEREZ, MAURICIO L.; ROCHA, ANDERSON. Leveraging Deep Neural Networks to Fight Child Pornography in the Age of Social Media. *JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION*, v. 50, p. 303-313, 2018.

WAINER, J; XAVIER, EDUARDO C. A Controlled Experiment on Python vs C for an Introductory Programming Course. *ACM Transactions on Computing Education*, v. 18, p. 1-16, 2018.

WERNECK, RAFAEL DE OLIVEIRA; DE ALMEIDA, WALDIR RODRIGUES; STEIN, BERNARDO VECCHIA; PAZINATO, DANIEL VATANABE; JÚNIOR, PEDRO RIBEIRO MENDES; PENATTI, OTÁVIO AUGUSTO BIZETTO; ROCHA, ANDERSON; TORRES, RICARDO DA SILVA . Kuaa: A unified framework for design, deployment, execution, and recommendation of machine learning experiments. *Future Generation Computer Systems-The International Journal of eScience*, v. 78, p. 59-76, 2018.

2017

NDALÓ, F. A. ; TAUBIN, G. ; GOLDENSTEIN, S. PSQP: Puzzle Solving by Quadratic Programming. IEEE Transactions on Pattern Analysis and Machine Intelligence. v. 39, p. 385-396, 2017.

NETO, L. B. ; GRIJALVA, F. ; MAIKE, V. ; MARTINI, L. C. ; FLORENCIO, D. ; BARANAUSKAS, C. ; ROCHA, A. ; GOLDENSTEIN, S. A Kinect-Based Wearable Face Recognition System to Aid Visually Impaired Users. IEEE Transactions on Human-Machine Systems. v. 47, p. 52-64, 2017.

ROCHA, A. ; SCHEIRER, W. J. ; FORSTALL, C. W. ; CAVALCANTE, T. ; THEOPHILO, A. ; SHEN, B. ; CARVALHO, A. ; STAMATATOS, E. Authorship Attribution for Social Media Forensics. IEEE Transactions on Information Forensics and Security. v. 12, p. 5-33, 2017.

RUPPERT, GUILHERME C.S. ; CHIACHIA, Giovanni ; BERGO, FELIPE P.G. ; FAVRETTO, FERNANDA O. ; YASUDA, CLARISSA L. ; ROCHA, ANDERSON ; FALCÃO, Alexandre X. . Medical image registration based on watershed transform from greyscale marker and multi-scale parameter search. Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization, v. 5, p. 138-156, 2017.

PEREZ, MAURICIO ; AVILA, SANDRA ; MORAES, Daniel ; TESTONI, Vanessa ; VALLE, Eduardo ; GOLDENSTEIN, Siome ; ROCHA, Anderson . Video pornography detection through deep learning techniques and motion information. Neurocomputing (Amsterdam), v. 230, p. 279-293, 2017.

PIRES, Ramon ; AVILA, SANDRA ; JELINEK, Herbert F. ; Wainer, Jacques ; VALLE, Eduardo ; ROCHA, ANDERSON . Beyond Lesion-Based Diabetic Retinopathy: A Direct Approach for Referral. IEEE Journal of Biomedical and Health Informatics, v. 21, p. 193-200, 2017.

COSTA, FILIPE DE O. ; OLIVEIRA, Alberto ; FERRARA, Pasquale ; DIAS, ZANONI ; Goldenstein, Siome ; ROCHA, ANDERSON . New dissimilarity measures for image phylogeny reconstruction. PATTERN ANALYSIS AND APPLICATIONS, p. 1-17, 2017.

FERREIRA, ANSELMO ; BONDI, Luca ; BAROFFIO, Luca ; BESTAGINI, Paolo ; HUANG, Jiwu ; DOS SANTOS, JEFERSSON A. ; TUBARO, Stefano ; ROCHA, ANDERSON . Data-Driven Feature Characterization Techniques for Laser Printer Attribution. IEEE Transactions on Information Forensics and Security, v. 12, p. 1860-1873, 2017.

CAVALCANTE, CRISTINA C. B. ; MASCHIO, CÉLIO ; SANTOS, Antonio Alberto ; SCHIOZER, Denis ; ROCHA, ANDERSON . History matching through dynamic decision-making. PLoS One, v. 12, p. e0178507-e0178507:32, 2017.

FERREIRA, ALEXANDRE ; SANTOS, GEISE ; ROCHA, ANDERSON ; GOLDENSTEIN, Siome . User-Centric Coordinates for Applications Leveraging 3-Axis Accelerometer Data. IEEE SENSORS JOURNAL, v. 17, p. 5231-5243, 2017.

BRITTO NETO, LAURINDO DE SOUSA ; GRIJALVA, Felipe ; MAIKE, Vanessa ; MARTINI, Luis César ; FLORENCIO, Dinei ; BARANAUSKAS, MARIA CECÍLIA CALANI ; ROCHA, ANDERSON ; GOLDENSTEIN, Siome . A Kinect-Based Wearable Face Recognition System to Aid Visually Impaired Users. IEEE Transactions on Human-Machine Systems, v. 47, p. 52-64, 2017.

SEIBEL, HILARIO ; GOLDENSTEIN, Siome ; ROCHA, ANDERSON . Eyes on the Target: Super-Resolution and License-Plate Recognition in Low-Quality Surveillance Videos. IEEE Access, v. 5, p. 20020-20035, 2017.

MENDES JÚNIOR, PEDRO R. ; DE SOUZA, ROBERTO M. ; WERNECK, RAFAEL DE O. ; STEIN, BERNARDO V. ; PAZINATO, DANIEL V. ; DE ALMEIDA, WALDIR R. ; PENATTI, OTÁVIO A. B. ; TORRES, RICARDO DA S. ; ROCHA, ANDERSON . Nearest neighbors distance ratio open-set classifier. Machine Learning (Dordrecht. Online), v. 106, p. 359-386, 2017.

RYU, BYUNGYONG ; Rivera, Adin Ramirez ; KIM, JAEMYUN ; CHAE, OKSAM . Local Directional Ternary Pattern for Facial Expression Recognition. IEEE TRANSACTIONS ON IMAGE PROCESSING, v. PP, p. 1-13, 2017.

DUARTE, EDSON ; Wainer, Jacques . Empirical comparison of cross-validation and internal metrics for tuning SVM hyperparameters. Pattern Recognition Letters, v. 88, p. 6-11, 2017.

WAINER, J.; CAWLEY, G. . Empirical Evaluation of Resampling Procedures for Optimising SVM Hyperparameters. *Journal of Machine Learning Research (Online)*, v. 18, p. 1-35, 2017.

Calumby, R. T. ; Gonçalves, M. A. ; TORRES, R. da S. . Diversity-based Interactive Learning meets Multimodality. *NEUROCOMPUTING*, v. 259, p. 159-175, 2017.

Pisani, F. ; Pedronette, D. C. G. ; TORRES, R. da S. ; Borin, E. . Contextual Spaces Re-Ranking: accelerating the Re-sort Ranked Lists step on heterogeneous systems. *CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE*, v. 29, p. e3962, 2017.

Santos, J. M. ; Moura, E. S. ; Silva, A. S. ; TORRES, R. da S. . Color and texture applied to a signature-based bag of visual words method for image retrieval. *MULTIMEDIA TOOLS AND APPLICATIONS*, v. 76, p. 16855-16872, 2017.

Pedronette, D. C. G. ; TORRES, R. da S. . Unsupervised Rank Diffusion for Content-Based Image Retrieval. *NEUROCOMPUTING*, v. 260, p. 478-489, 2017.

Almeida, A. E. ; TORRES, R. da S. . Remote Sensing Image Classification Using Genetic-Programming-Based Time Series Similarity Functions. *IEEE Geoscience and Remote Sensing Letters*, v. 14, p. 1499-1503, 2017.

Alberton, B. ; TORRES, R. da Silva ; Cancian, L. ; Borges, B. D. ; Almeida, J. G. A. ; Mariano, G. ; Santos, J. A. ; Morellato, L. P. C. . Introducing digital cameras to monitor plant phenology in the tropics: applications for conservation. *Perspectives in Ecology and Conservation*, v. 15, p. 82-90, 2017.

Moura, F. A. ; Marche, A. L. ; Caetano, F. G. ; TORRES, R. da S. ; Martins, L. E. B. ; Cunha, S. . Analysis of high-intensity efforts of Brazilian professional soccer players. *Human Movement*, v. 0, p. 3-10, 2017.

RODRIGUES LUCENA, TIAGO FRANKLIN ; FLEURY ROSA, SUÉLIA RODRIGUES ; JACQUES MIOSSO, CRISTIANO ; da Silva Torres, Ricardo ; KRUEGER, TED ; GALLICCHIO DOMINGUES, DIANA MARIA . Walking and

health: an enactive affective system. *Digital Creativity (Exeter)*, v. 27, p. 314-333, 2017.

2016

ALMEIDA, J. ; PEDRONETTE, D. C. G. ; ALBERTON, B. ; MORELLATO, L. P. C. ; TORRES, R. da S. Unsupervised Distance Learning for Plant Species Identification. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. v. 9, p. 5325-5338, 2016.

ALMEIDA, J. ; SANTOS, J. A. dos ; ALBERTON, B. ; MORELLATO, L. P. C. ; TORRES, R. da S. Phenological visual rhythms: Compact representations for fine-grained plant species identification. *Pattern Recognition Letters*. v. 81, p. 90-100, 2016.

BARBOSA, A. ; PAULOVICH, F. V. ; PAIVA, A. ; GOLDENSTEIN, S. ; PETRONETTO, F. ; NONATO, L. G. Visualizing and Interacting with Kernelized Data. *IEEE Transactions on Visualization and Computer Graphics*. v. 22, p. 1314-1325, 2016.

BONDI, L. ; BAROFFIO, L. ; CESANA, M. ; TAGLIASACCHI, M. ; CHIACHIA, G. ; ROCHA, A. Rate-energy-accuracy optimization of convolutional architectures for face recognition. *Journal of Visual Communication and Image Representation*. v. 36, p. 142-148, 2016.

CALUMBY, R. T. ; GONÇALVES, M. A. ; TORRES, R. da S. On Interactive Learning-to-Rank for IR: Overview, Recent Advances, Challenges, and Directions. *Neurocomputing*. v. 208, p. 3-24, 2016.

CARVALHO, T. J. ; FARIA, F. A. ; PEDRINI, H. ; TORRES, R. da S. ; ROCHA, A. Illuminant-based Transformed Spaces for Image Forensics. *IEEE Transactions on Information Forensics and Security*. v. 11, p. 720-733, 2016.

OLIVEIRA, A. O. ; FERRARA, P. ; ROSA, A. ; PIVA, A. ; BARNI, M. ; GOLDENSTEIN, S. ; DIAS, Z. ; ROCHA, A. Multiple Parenting Phylogeny Relationships in Digital Images. *IEEE Transactions on Information Forensics and Security*. v. 11, p. 328-343, 2016.

FARIA, F. A. ; ALMEIDA, J. ; ALBERTON, B. ; MORELLATO, L. P. C. ; TORRES, R. da S. Fusion of Time Series Representations for Plant Recognition in Phenology Studies. Pattern Recognition Letters. v. 83, p. 205-214, 2016.

FARIA, F. A. ; ALMEIDA, J. ; ALBERTON, B. ; MORELLATO, L. P. C. ; ROCHA, A. ; TORRES, R. da S. Time series-based classifier fusion for fine-grained plant species recognition. Pattern Recognition Letters. v. 81, p. 101-109, 2016.

FERREIRA, A. ; SANTOS, J. A. dos ; ROCHA, A. Multi-directional and multi-scale perturbation approaches for blind forensic median filtering detection. Intelligent Data Analysis. v. 20, p. S17-S36, 2016.

FERREIRA, A. ; FELIPUSSI, S. C. ; ALFARO, C. ; FONSECA, P. ; VARGAS-MUNOZ, J. E. ; SANTOS, J. A. dos ; ROCHA, A. Behavior Knowledge Space-Based Fusion for Copy-Move Forgery Detection. IEEE Transactions on Image Processing. v. 25, p. 4729-4742, 2016.

FREITAS, A. M. ; TORRES, R. da S. ; MIRANDA, P. A. V. TSS & TSB: Tensor scale descriptors within circular sectors for fast shape retrieval. Pattern Recognition Letters. v. 83, p. 303-311, 2016.

GRIJALVA, F. ; MARTINI, L. ; FLORENCIO, D. ; GOLDENSTEIN, S. A Manifold Learning Approach for Personalizing HRTFs from Anthropometric Features. IEEE/ACM Transactions on Audio, Speech, and Language Processing. v. 24, p. 559-570, 2016.

LEITE, R. A. ; SCHNORR, L. M. ; ALMEIDA, J. ; ALBERTON, B. ; MORELLATO, L. P. C. ; TORRES, R. da S. ; COMBA, J. L. D. PhenoVis - A Tool for Visual Phenological Analysis of Digital Camera Images Using Chronological Percentage Maps. Information Sciences. v. 372, p. 181-195, 2016.

MARIANO, G. ; MORELLATO, L. P. C. ; ALMEIDA, J. ; ALBERTON, B. ; CAMARGO, M. G. G. ; TORRES, R. da S. Modeling plant phenology database: Blending near-surface remote phenology with on-the-ground observations. Ecological Engineering. v. 91, p. 396-408, 2016.

MORAES, D. ; WAINER, J. ; ROCHA, A. Low False Positive Learning with Support Vector Machines. *Journal of Visual Communication and Image Representation*. v. 38, p. 340-350, 2016.

MOREIRA, D. ; AVILA, S. ; PEREZ, M. ; MORAES, D. ; TESTONI, V. ; VALLE, E. ; GOLDENSTEIN, S. ; ROCHA, A. Pornography Classification: The Hidden Clues in Video Space-Time. *Forensic Science International*. v. 268, p. 46-61, 2016.

OIKAWA, M. A. ; DIAS, Z. ; ROCHA, A. ; GOLDENSTEIN, S. Manifold Learning and Spectral Clustering for Image Phylogeny Forests. *IEEE Transactions on Information Forensics and Security*. v. 11, p. 5-18, 2016.

OIKAWA, M. A. ; DIAS, Z. ; ROCHA, A. ; GOLDENSTEIN, S. Distances in multimedia phylogeny. *International Transactions in Operational Research*. v. 23, p. 921-946, 2016.

PAZINATO, D. V. ; STEIN, B. V. ; ALMEIDA, W. R. ; WERNECK, R. O. ; MENDES, P. R. ; PENATTI, O. A. B. ; TORRES, R. da S. ; MENEZES, F. H. ; ROCHA, A. Pixel-Level Tissue Classification for Ultrasound Images. *IEEE Journal of Biomedical and Health Informatics*. v. 20, p. 256-267, 2016.

PEDRONETTE, D. C. G. ; ALMEIDA, J. ; TORRES, R. da S. A graph-based ranked-list model for unsupervised distance learning on shape retrieval. *Pattern Recognition Letters*. v. 83, p. 357-387, 2016.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Combining re-ranking and rank aggregation methods for image retrieval. *Multimedia Tools and Applications*. v. 75, p. 9121-9144, 2016.

PEDRONETTE, D. C. G. ; TORRES, R. da S. A Correlation Graph Approach for Unsupervised Manifold Learning in Image Retrieval Tasks. *Neurocomputing*. v. 208, p. 66-79, 2016.

PERRE, P. ; FARIA, F. ; JORGE, L. R. ; ROCHA, A. ; TORRES, R. da S. ; SOUZA-FILHO, M. F. ; LEWINSOHN, T. M. ; ZUCCHI, R. A. Toward an Automated Identification of Anastrepha Fruit Flies in the fraterculus group (Diptera, Tephritidae). *Neotropical Entomology*. v. 45, p. 554-558, 2016.

SARAIVA, P. C. ; CAVALCANTI, J. M. B. ; MOURA, E. S. de ; GONÇALVES, M. A. ; TORRES, R. da S. A multimodal query expansion based on genetic programming for visually-oriented e-commerce applications. *Information Processing & Management*. v. 52, p. 783-800, 2016.

MELGUIZO, T. ; WAINER, J. Toward a set of measures of student learning outcomes in higher education: evidence from Brazil. *Higher Education*. v. 72, p. 381-401, 2016.

2015

ALMEIDA, J. ; SANTOS, J. A. dos ; MIRANDA, W. O. ; ALBERTON, B. ; MORELLATO, L. P. C. ; TORRES, R. da S. Deriving vegetation indices for phenology analysis using genetic programming. *Ecological Informatics*. v. 26, p. 61-69, 2015.

ANDALÓ, F. A. ; TAUBIN, G. ; GOLDENSTEIN, S. Efficient height measurements in single images based on the detection of vanishing points. *Computer Vision and Image Understanding*. v. 138, p. 51-60, 2015.

CARVALHO, T. J. ; PEDRINI, H. ; ROCHA, A. Visual Computing and Machine Learning Techniques for Digital Forensics. *Revista de Informática Teórica e Aplicada - RITA*. v. 22, p. 128-153, 2015.

FERREIRA, A. ; NAVARRO, L. ; PINHEIRO, G. ; SANTOS, J. A. dos ; ROCHA, A. Laser Printer Attribution: Exploring New Features and Beyond. *Forensic Science International*. v. 247, p. 105-125, 2015.

MENOTTI, D. ; CHIACHIA, G. ; PINTO, A. S. ; SCHWARTZ, W. R. ; PEDRINI, H. ; FALCAO, A. X ; ROCHA, A. Deep Representations for Iris, Face, and Fingerprint Spoofing Detection. *IEEE Transactions on Information Forensics and Security*. v. 10, p. 864-879, 2015.

PEDRONETTE, D. C. G. ; CALUMBY, R. T. ; TORRES, R. da S. A semi-supervised learning algorithm for relevance feedback and

collaborative image retrieval. EURASIP Journal on Image and Video Processing. v. 2015, p. 1-15, 2015.

PENATTI, O. A. B. ; WERNECK, R. O. ; ALMEIDA, W. R. ; STEIN, B. V. ; PAZINATO, D. V. ; MENDES, P. R. ; TORRES, R. da. S. ; ROCHA, A. Mid-level Image Representations for Real-time Heart View Plane Classification of Echocardiograms. Computers in Biology and Medicine. v. 66, p. 66-81, 2015.

PINTO, A. S. ; PEDRINI, H. ; SCHWARTZ, W. R. ; ROCHA, A. Face Spoofing Detection Through Visual Codebooks of Spectral Temporal Cubes. IEEE Transactions on Image Processing. v. 24, p. 4726-4740, 2015.

PINTO, A. S. ; SCHWARTZ, W. R. ; PEDRINI, H. ; ROCHA, A. Using Visual Rhythms for Detecting Video-based Facial Spoof Attacks. IEEE Transactions on Information Forensics and Security. v. 10, p. 1025-1038, 2015.

PIRES, R. ; CARVALHO, T. ; SPURLING, G. ; GOLDENSTEIN, S. ; WAINER, J. ; LUCKIE, A. ; JELINEK, H. F. ; ROCHA, A. Automated Multi-Lesion Detection for Referable Diabetic Retinopathy in Indigenous Health Care. Plos One. v. 10, p. e0127664, 2015.

ROCHA, A. ; SCHEIRER, W. J. Large-scale learning for media understanding. EURASIP Journal on Image and Video Processing. v. 2015, 2015.

SANTOS, J. M. ; MOURA, E. S. de ; SILVA, A. S. ; CAVALCANTI, J. M. ; TORRES, R. da S. ; Vidal, M. A Signature-based Bag of Visual Words Method for Image Indexing and Search. Pattern Recognition Letters. v. 65, p. 1-7, 2015.

SILVA, E. ; CARVALHO, T. J. ; FERREIRA, A. ; ROCHA, A. Going deeper into copy-move forgery detection: exploring image telltales via multi-scale analysis and voting processes. Journal of Visual Communication and Image Representation. v. 29, p. 16-32, 2015.

WAINER, J. ; ECKMANN, M. ; ROCHA, A. Peer-Selected “Best Papers”—Are They Really That “Good”? Plos One. v. 10, p. e0118446-e0118446-12, 2015.

WAINER, J.; VIEIRA, P. ; MELGUIZO, T. The association between having access to computers and Internet and educational achievement for primary students in Brazil. *Computers and Education*. v. 80, p. 68-76, 2015.

TESTONI, V. ; PENATTI, O. A. B. ; ANDALÓ, F. A. ; LIZARRAGA, M. ; RITTNER, L. ; VALLE, E. ; AVILA, S. E. F. Guest Editorial: Special Issue on Vision-based Human Activity Recognition. *Journal of Communication and Information Systems*. v. 30, 2015.

TORRES, R. da S. Reasoning for Complex Data: Research Initiatives on Data Science. In: 21st Brazilian Symposium on Multimedia and the Web (WebMedia), p. 5, 2015.

2014

ALBERTON, B. ; ALMEIDA, J. ; HELM, R. ; TORRES, R. da S. ; MENZEL, A. ; MORELLATO, L. P. C. Using phenological cameras to track the green up in a cerrado savanna and its on-the-ground validation. *Ecological Informatics*. v. 19, p. 62-70, 2014.

ALMEIDA, J. ; SANTOS, J. A. dos ; ALBERTON, B. ; TORRES, R. da S. ; MORELLATO, L. P. C. Applying machine learning based on multiscale classifiers to detect remote phenology patterns in Cerrado savanna trees. *Ecological Informatics*. v. 23, p. 49-61, 2014.

CALUMBY, R. T. ; TORRES, R. da S. ; GONÇALVES, M. A. Multimodal Retrieval with Relevance Feedback Based on Genetic Programming. *Multimedia Tools and Applications*. v. 69, p. 991-1019, 2014.

CHIACHIA, G. ; FALCÃO, A. X. ; PINTO, N. ; ROCHA, A. ; COX, D. D. Learning Person-Specific Representations from Faces in the Wild. *IEEE Transactions on Information Forensics and Security*. v. 9, p. 2089-2099, 2014.

COSTA, F. O. ; OIKAWA, M. A. ; DIAS, Z. ; GOLDENSTEIN, S. ; ROCHA, A. Image Phylogeny Forests Reconstruction. *IEEE Transactions on Information Forensics and Security*. v. 9, p. 1533-1546, 2014.

COSTA, F. O. ; SILVA, E. ; ECKMANN, M. ; SCHEIRER, W. J. ; ROCHA, A. Open set source camera attribution and device linking. Pattern Recognition Letters. v. 39, p. 92-101, 2014.

SANTOS, J. A. dos ; PENATTI, O. A. B. ; GOSSELIN, P.-H. ; FALCAO, A. X. ; PHILIPP-FOLIGUET, S. ; TORRES, R. da S. Efficient and Effective Hierarchical Feature Propagation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing. v. 7, p. 4632-4643, 2014.

FABIAN, J. ; PIRES, R. ; ROCHA, A. Visual words dictionaries and fusion techniques for searching people through textual and visual attributes. Pattern Recognition Letters. v. 39, p. 74-84, 2014.

FARIA, F. A. ; SANTOS, J. A. dos ; ROCHA, A. ; TORRES, R. da S. A framework for selection and fusion of pattern classifiers in multimedia recognition. Pattern Recognition Letters. v. 39, p. 52-64, 2014.

FARIA, F. ; PEDRONETTE, D. C. G. ; SANTOS, J. A. dos ; ROCHA, A. ; TORRES, R. da S. Rank Aggregation for Pattern Classifier Selection in Remote Sensing Images. IEEE J-STARS. v. 7, p. 1103-1115, 2014.

FARIA, F. A. ; PERRE, P. ; ZUCCHI, R. A. ; JORGE, L. R. ; LEWINSOHN, T. M. ; ROCHA, A. ; TORRES, R. da S. Automatic identification of fruit flies (Diptera: Tephritidae). Journal of Visual Communication and Image Representation. v. 25, p. 1516-1527, 2014.

LI, L. T.; PEDRONETTE, D. C. G. ; ALMEIDA, J. ; PENATTI, O. A. B. ; CALUMBY, R. T. ; TORRES, R. da S. A rank aggregation framework for video multimodal geocoding. Multimedia Tools and Applications. v. 73, p. 1323-1359, 2014.

MANSANO, A. ; MATSUOKA, J. A. ; ABIUZZI, N. A. M. ; AFONSO, L. C. S. ; PAPA, J. P. ; FARIA, F. ; TORRES, R. da S. ; FALCAO, A. X. Swarm-based Descriptor Combination and its Application for Image Classification. ELCVIA. Electronic letters on computer vision and image analysis. v. 13, p. 13-27, 2014.

MORAIS, E. ; FERREIRA, A. ; CUNHA, S. A. ; BARROS, R. M. L. ; ROCHA, A. ; GOLDENSTEIN, S. A multiple camera methodology for automatic

localization and tracking of futsal players. Pattern Recognition Letters. v. 39, p. 21-30, 2014.

NAKAMURA, R. Y. M. ; FONSECA, L. M. G. ; SANTOS, J. A. dos ; TORRES, R. da S. ; YANG, X.-S. ; PAPA, J. P. Nature-Inspired Framework for Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing. v. 52, p. 2126-2137, 2014.

PEDRONETTE, D. C. G. ; ALMEIDA, J. ; TORRES, R. da S. A Scalable Re-Ranking Method for Content-Based Image Retrieval. Information Sciences. v. 265, p. 91-104, 2014.

PEDRONETTE, D. C. G. ; TORRES, R. da S. ; Calumby, R. T. Using Contextual Spaces for Image Re-Ranking and Rank Aggregation. Multimedia Tools and Applications. v. 69, p. 689-716, 2014.

PEDRONETTE, D. C. G. ; PENATTI, O. A. B. ; TORRES, R. da S. Unsupervised Manifold Learning Using Reciprocal kNN Graphs in Image Re-Ranking and Rank Aggregation Tasks. Image and Vision Computing. v. 32, p. 120-130, 2014.

ROCHA, A. ; GOLDENSTEIN, S. Multiclass From Binary: Expanding One-Versus-All, One-Versus-One and ECOC-Based Approaches. IEEE Transactions on Neural Networks and Learning Systems. v. 25, p. 289-302, 2014.

TEODORO, G. ; VALLE, E. ; MARIANO, N. ; TORRES, R. da S. ; MEIRA, W. ; SALTZ, J. H. Approximate similarity search for online multimedia services on distributed CPU-GPU platforms. The VLDB Journal. v. 23, p. 427-448, 2014.

LUZ, A. ; VALLE, E. ; ARAÚJO, A. de A. Non-collaborative content detecting on video sharing social networks. Multimedia Tools and Applications. v. 70, p. 1049-1067, 2014.

2013

ALMEIDA, J. ; LEITE, N. J. ; TORRES, R. da S. Online Video Summarization on Compressed Domain. Journal of Visual Communication and Image Representation. v. 24, p. 729-738, 2013.

ANDRE, A. B. ; BELTRAME, E. ; WAINER, J. A combination of support vector machine and k-nearest neighbors for machine fault detection. Applied Artificial Intelligence. v. 27, p. 36-49, 2013.

BEZERRA, F. ; WAINER, J. Algorithms for anomaly detection of traces in logs of process aware information systems. Information Systems. v. 38, p. 33-44, 2013.

CARVALHO, T. J. ; RIESS, C. ; ANGELOPOULOU, E. ; PEDRINI, H. ; ROCHA, A. Exposing Digital Image Forgeries by Illumination Color Classification. IEEE Transactions on Information Forensics and Security. v. 8, p. 1182-1194, 2013.

DIAS, Z. ; GOLDENSTEIN, S. ; ROCHA, A. Large-Scale Image Phylogeny: Tracing Image Ancestral Relationships. IEEE Multimedia. v. 20, p. 58-70, 2013.

DIAS, Z. ; GOLDENSTEIN, S. ; ROCHA, A. Toward image phylogeny forests: Automatically recovering semantically similar image relationships. Forensic Science International. v. 231, p. 178-189, 2013.

DIAS, Z. ; GOLDENSTEIN, S. ; ROCHA, A. Exploring heuristic and optimum branching algorithms for image phylogeny. Journal of Visual Communication and Image Representation. v. 24, p. 1124-1134, 2013.

SANTOS, J. A. dos ; GOSSELIN, P.-H. ; PHILIPP-FOLIGUET, S. ; TORRES, R. da S. ; FALCAO, A. X. Interactive Multiscale Classification of High-Resolution Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing. v. 6, p. 2020-2034, 2013.

MURTHY, U. ; FOX, E. A. ; CHEN, Y. ; HALLERM, E. M. ; ORTH, D. J. ; TORRES, R. da S. ; LI, L. T. ; KOZIEVITCH, N. P. ; ANDRADE, F. ; FALCÃO, T. R. C. ; Ramos, E. J. SuperIDR: A Tool for Fish Identification and Information Retrieval. Fisheries. v. 38, p. 65-75, 2013.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Image Re-Ranking and Rank Aggregation based on Similarity of Ranked Lists. Pattern Recognition. v. 46, p. 2350-2360, 2013.

PIRES, R. ; JELINEK, H. F. ; WAINER, J. ; GOLDENSTEIN, S. ; VALLE, E. ; ROCHA, A. Assessing the Need for Referral in Automatic Diabetic Retinopathy Detection. IEEE Transactions on Biomedical Engineering. v. 60, p. 3391-3398, 2013.

AVILA, S. E. F. ; THOME, N. ; CORD, M. ; VALLE, E. ; ARAÚJO, A. de A. Pooling in image representation: the visual codeword point of view. Computer Vision and Image Understanding. v. 117, p. 453-465, 2013.

SARAIVA, P. C. ; CAVALCANTI, J. M. B. ; GONÇALVES, M. A. ; SANTOS, K. C. L. ; MOURA, E. S. de ; TORRES, R. da S. Evaluation of parameters for combining multiple textual sources of evidence for Web image retrieval using Genetic Programming. Journal of the Brazilian Computer Society. v. 19, p. 147-160, 2013.

STROEH, K. ; MADEIRA, E. R. M. ; GOLDENSTEIN, S. An approach to the correlation of security events based on machine learning techniques. Journal of Internet Services and Applications. v. 4, p. 7:1-7:16, 2013.

TOKUDA, E. ; PEDRINI, H. ; ROCHA, A. Computer generated images vs. digital photographs: A synergetic feature and classifier combination approach. Journal of Visual Communication and Image Representation. v. 24, p. 1276-1292, 2013.

VIEIRA, P. ; WAINER, J. Correlações entre a contagem de citações de pesquisadores brasileiros, usando o Web of Science, Scopus e Scholar. Perspectivas em Ciência da Informação. v. 18, p. 45-60, 2013.

WAINER, J; VIEIRA, P. Avaliação de bolsas de produtividade em pesquisa do CNPq e medidas bibliométricas: correlações para todas as grandes áreas. Perspectivas em Ciência da Informação. v. 18, p. 60-78, 2013.

WAINER, J. ; ECKMANN, M. ; GOLDENSTEIN, S. ; ROCHA, A. How productivity and impact differ across computer science subareas. Communications of the ACM. v. 56, p. 67-73, 2013.

VALLE, E. ; WAINER, J. What happens to computer science research after it is published? Tracking CS research lines. Journal of the American Society for Information Science and Technology. v. 64, p. 1104-1111, 2013.

WAINER, J. ; VIEIRA, P. Correlations between bibliometrics and peer evaluation for all disciplines: the evaluation of Brazilian scientists. Scientometrics. v. 96, p. 395-410, 2013.

SCHEIRER, W. J. ; ROCHA, A. ; SAPKOTA, A. ; BOULT, T. E. Toward Open Set Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence. v. 35, p. 1757-1772, 2013.

TORRES, R. da S. ; LEWINER, T. Guest Editorial: Image and Video Processing and Analysis. Journal of Mathematical Imaging and Vision. v. 45, 2013.

2012

ALMEIDA, J. ; LEITE, N. J. ; TORRES, R. da S. VISON: Video Summarization for Online Applications. Pattern Recognition Letters. v. 33, p. 397-409, 2012.

BEZERRA, F. ; WAINER, J. A Dynamic Threshold Algorithm for Anomaly Detection in Logs of Process Aware Systems. Journal of Information and Data Management. v. 3, p. 316-331, 2012.

DIAS, Z. ; ROCHA, A. ; GOLDENSTEIN, S. Image Phylogeny by Minimal Spanning Trees. IEEE Transactions on Information Forensics and Security. v. 7, p. 774-788, 2012.

ECKMANN, M. ; ROCHA, A. ; WAINER, J. Relationship between high-quality journals and conferences in computer vision. Scientometrics. v. 90, p. 617-630, 2012.

PENATTI, O. A. B. ; VALLE, E. ; TORRES, R. da S. Comparative study of global color and texture descriptors for web image retrieval. *Journal of Visual Communication and Image Representation*. v. 23, p. 359-380, 2012.

ELLIS, C. A. ; KIM, K. ; REMBERT, A. J. ; WAINER, J. Investigations on Stochastic Information Control Nets. *Information Sciences*. v. 194, p. 120-137, 2012.

KOZIEVITCH, N. P. ; ALMEIDA, J. ; TORRES, R. da S. ; SANTANCHÈ, A. ; LEITE, N. J. ; MURTHY, U. ; FOX, E. A. Reusing a Compound-Based Infrastructure for Searching and Annotating Video Stories. *International Journal of Multimedia Technology*. v. 2, p. 89-97, 2012.

MORISSON, A. ; LAMBERT, J. ; REIS, P. ; ROCHA, A. Perícia Criminal Brasileira, Estado da Arte e Tecnologias. *Perícia Federal*. v. XIII, p. 44-46, 2012.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Exploiting Contextual Information for Image Re-Ranking and Rank Aggregation. *International Journal of Multimedia Information Retrieval*. v. 1, p. 115-128, 2012.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Exploiting Pairwise Recommendation and Clustering Strategies for Image Re-Ranking. *Information Sciences*. v. 207, p. 19-34, 2012.

ROCHA, A.; CARVALHO, T. J. ; JELINEK, H. F. ; GOLDENSTEIN, S. ; WAINER, J. Points of Interest and Visual Dictionaries for Automatic Retinal Lesion Detection. *IEEE Transactions on Biomedical Engineering*. v. 59, p. 2244-2253, 2012.

ROCHA, A.; PAPA, J. P. ; MEIRA, L. A. A. How far do we get using machine learning black-boxes?. *International Journal of Pattern Recognition and Artificial Intelligence*. v. 26, 2012.

SABOIA, P. ; GOLDENSTEIN, S. Crowd simulation: applying mobile grids to the social force model. *The Visual Computer*. v. 28, p. 1039-1048, 2012.

SANTOS, J. A. dos ; GOSSELIN, P.-H. ; PHILLIP-FOLIGUET, S. ; TORRES, R. da S. ; FALCAO, A. X. Multi-Scale Classification of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing. v. 50, p. 3764-3775, 2012.

SCHEIRER, W. J. ; ROCHA, A. ; PARRIS, J. ; BOULT, T. E. Learning for Meta-Recognition. IEEE Transactions on Information Forensics and Security. v. 7, p. 1214-1224, 2012.

SILVA, A. T. ; SANTOS, J. A. dos ; FALCAO, A. X. ; TORRES, R. da S. ; MAGALHÃES, L. P. Incorporating Multiple Distance Spaces in Optimum-path Forest Classification to Improve Feedback-based Learning. Computer Vision and Image Understanding. v. 116, p. 510-523, 2012.

SILVA, V. ; BETTA, C. ; NISHIO, E. ; BARSOTTINI, C. ; WAINER, J. Mensuração do tempo dos registros manual e eletrônico da Sistematização da Assistência de Enfermagem em Unidade de Terapia Intensiva. Journal of Health Informatics. v. 4, p. 1, 2012.

2011

BARROS, R. ; MENEZES, R. ; RUSSOMANNO, T. ; MISUTA, M. ; BRANDÃO, B. C. ; FIGUEROA, P. ; LEITE, N. J. ; GOLDENSTEIN, S. Measuring Handball Players Trajectories Using an Automatically Trained Boosting Algorithm. Computer Methods in Biomechanics and Biomedical Engineering. v. 14, p. 53-63, 2011.

BEZERRA, F. ; WAINER, J. Fraud detection in process aware systems. International Journal of Business Process Integration and Management. v. 5, p. 121-129, 2011.

GOES, F. de ; GOLDENSTEIN, S. ; DESBRUN, M. ; VELHO, L. Exoskeleton: Curve network abstraction for 3D shapes. Computers & Graphics. v. 35, p. 112-121, 2011.

DORINI, L. B. ; GOLDENSTEIN, S. Unscented feature tracking. Computer Vision and Image Understanding. v. 115, p. 8-15, 2011.

FERREIRA, C. D. ; SANTOS, J. A. dos ; TORRES, R. da S. ; Gonçalves, M. A. ; REZENDE, R. C. ; FAN, W. Relevance feedback based on genetic programming for image retrieval. *Pattern Recognition Letters*. v. 32, p. 27-37, 2011.

GIL, F. B. ; KOZIEVITCH, N. P. ; TORRES, R. da S. GeoNote: A Web Service for Geographic Data Annotation in Biodiversity Information Systems. *Journal of Information and Data Management*. v. 2, p. 195-210, 2011.

KIMURA, P. A. S. ; CAVALCANTI, J. M. B. ; SARAIVA, P. C. ; TORRES, R. da S. ; GONÇALVES, M. A. Evaluating Retrieval Effectiveness of Descriptors for Searching in Large Image Databases. *Journal of Information and Data Management*. v. 2, p. 305-320, 2011.

KOZIEVITCH, N. P. ; ALMEIDA, J. ; TORRES, R. da S. ; LEITE, N. J. ; GONÇALVES, M. A. ; MURTHY, U. ; FOX, E. A. Towards a Formal Theory for Complex Objects and Content-Based Image Retrieval. *Journal of Information and Data Management*. v. 2, p. 321-336, 2011.

KOZIEVITCH, N. P. ; TORRES, R. da S. ; SANTANCHÈ, A. ; PEDRONETTE, D. C. G. ; CALUMBY, R. T. ; FOX, E. A. An Infrastructure for Searching and Harvesting Complex Image Objects. *The Information - Interaction - Intelligence (I3) Journal*. v. 11, p. 39-68, 2011.

MARIOTE, L. E. ; MEDEIROS, C. B. ; TORRES, R. da S. ; BUENO, L. M. TIDES - A New Descriptor for Time Series Oscillation Behavior. *GeoInformatica*. v. 15, p. 75-109, 2011.

MEDEIROS, C. B. ; SANTANCHÈ, A. ; MADEIRA, E. R. M. ; MARTINS, E. ; MAGALHÃES, G. C. ; BARANAUSKAS, M. C. C. ; LEITE, N. J. ; TORRES, R. da S. Data Driven Research at LIS: the Laboratory of Information Systems at UNICAMP. *Journal of Information and Data Management*. v. 2, p. 93-108, 2011.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Exploiting clustering approaches for image re-ranking. *Journal of Visual Languages and Computing*. v. 22, p. 453-466, 2011.

PINTO-CÁCERES, S. M ; ALMEIDA, J. ; NERIS, V. P. A. ; BARANAUSKAS, M. C. C. ; LEITE, N. J. ; TORRES, R. da S. Navigating through Video Stories using Clustering Sets. International Journal of Multimedia Data Engineering and Management. v. 2, p. 1-20, 2011.

ROCHA, A. ; SCHEIRER, W. J. ; BOULT, T. E. ; GOLDENSTEIN, S. Vision of the Unseen: Current Trends and Challenges in Digital Image and Video Forensics. ACM Computing Surveys. v. 43, p. 26:1-26:42, 2011.

SANTOS, J. A. dos ; FERREIRA, C. D. ; TORRES, R. da S. ; GONÇALVES, M. A. ; LAMPARELLI, R. A relevance feedback method based on genetic programming for classification of remote sensing images. Information Sciences. v. 181, p. 2671-2684, 2011.

SCHEIRER, W. J. ; ROCHA, A. ; MICHEALS, R. J. ; BOULT, T. E. Meta-Recognition: The Theory and Practice of Recognition Score Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence. v. 33, p. 1689-1695, 2011.

SILVA, E. A. ; ROCHA, A. Análise Forense de Documentos Digitais: Além da Visão Humana. Saúde, Ética & Justiça. v. 16, p. 9-17, 2011.

WAINER, J. ; GOLDENSTEIN, S ; BILLA, C. Z. Invisible work in standard bibliometric evaluation of computer science. Communications of the ACM. v. 54, p. 141-146, 2011.

BILLA, C. Z. ; WAINER, J. ; BARSOTTINI, C. ST-Audit: guideline-based automatic auditing of electronic patient records. Journal of Intelligent Information Systems. v. 36, p. 49-72, 2011.

WAINER, J. ; OLIVEIRA, H. P. ; ANIDO, R. Patterns of bibliographic references in the ACM published papers. Information Processing & Management. v. 47, p. 135-142, 2011.

2010

ANDALÓ, F. A. ; MIRANDA, P.A.V. ; TORRES, R. da S. ; FALCAO, A. X. Shape feature extraction and description based on tensor scale. Pattern Recognition. v. 43, p. 26-36, 2010.

VALLE, E. ; CORD, M. ; PHILIPP-FOLIGUET, S. ; GORISSE, D. Indexing Personal Image Collections: A Flexible, Scalable Solution. IEEE Transactions on Consumer Electronics. v. 56, p. 1167-1175, 2010.

ALMEIDA, J. ; VALLE, E. ; TORRES, R. da S. ; LEITE, N. J. DAHC-tree: An Effective Index for Approximate Search in High-Dimensional Metric Spaces. Journal of Information and Data Management. v. 1, p. 375-390, 2010.

LI, L. T. ; TORRES, R. da S. Revisitando os Desafios da Recuperação de Informação Geográfica na Web. Cadernos CPQD tecnologia. v. 6, p. 7-20, 2010.

ROCHA, A. ; GOLDENSTEIN, S. Progressive randomization: Seeing the unseen. Computer Vision and Image Understanding. v. 114, p. 349-362, 2010.

ROCHA, A. ; HAUAGGE, D. ; WAINER, J. ; GOLDENSTEIN, S. Automatic Fruit and Vegetable Classification from Images. Computers and Electronics in Agriculture. v. 70, p. 96-104, 2010.

WAINER, J.; COVIC, A. Ethnic Digital Exclusion in Brazil: National and Regional Data from 2001 to 2004. Information Technologies and International Development. v. 6, p. 34-47, 2010.

2009

ALMEIDA, J. ; TORRES, R. da S. ; GOLDENSTEIN, S. SIFT applied to CBIR. Revista de Sistemas de Informação da FSMA. v. 4, p. 41-48, 2009.

ARRUDA, D. ; BEZERRA, F. ; NERIS, V. P. ; TORO, P. R. ; WAINER, J. Brazilian computer science research: Gender and regional distributions. Scientometrics. v. 79, p. 651-665, 2009.

MONTOYA-ZEGARRA, J. ; LEITE, N. J. ; TORRES, R. da S. Wavelet-based fingerprint image retrieval. Journal of Computational and Applied Mathematics. v. 227, p. 294-307, 2009.

WAINER, J. ; BARSOTTINI, C. G. N. ; LACERDA, D. ; MARCO, L. R. M. de. Empirical evaluation in Computer Science research published by ACM. Information and Software Technology. v. 51, p. 1081-1085, 2009.

WAINER, J. ; XAVIER, E. C. ; BEZERRA, F. Scientific production in Computer Science: A comparative study of Brazil and other countries. Scientometrics. v. 81, p. 535-547, 2009.

2. Conferences

2024

SILVA, B. E. R. ; NAPOLI, OTÁVIO ; VARGAS, J. ; ROCHA, A ; BOCCATO, Levy ; BORIN, Edson . Impact of Pre-training Datasets on Human Activity Recognition with Contrastive Predictive Coding. In: Brazilian Conference on Intelligence Systems (Bracis), 2024, Belém. Brazilian Conference on Intelligence Systems (Bracis), 2024.

LUZ, G. P. C. P. ; NAPOLI, OTÁVIO ; VARGAS, J. ; ROCHA, A. ; BOCCATO, Levy ; BORIN, Edson . An Evaluation of Temporal Neighborhood Coding Variants in Smartphone-Based Human Activity Recognition. In: Brazilian Conference on Intelligence Systems (Bracis), 2024, Belém. Brazilian Conference on Intelligence Systems (Bracis), 2024.

HECKER, N. ; NAPOLI, OTÁVIO ; VARGAS, J. ; ROCHA, A ; BOCCATO, Levy ; BORIN, Edson . An Analysis of Time-Frequency Consistency in Human Activity Recognition. In: Brazilian Conference on Intelligence Systems (Bracis), 2024, Belém. Brazilian Conference on Intelligence Systems (Bracis), 2024.

ALVES, P. ; GONZALEZ, L. F. G. ; VARGAS, J. ; ROCHA, A. ; BOCCATO, Levy ; BORIN, Edson . Comparing LIME and SHAP global explanations for Human Activity Recognition. In: Brazilian Conference on Intelligence Systems (Bracis), 2024, Belém. Brazilian Conference on Intelligence Systems (Bracis), 2024.

CARDENUTO, JOÃO P. ; MANDELLI, SARA ; MOREIRA, Daniel ; BESTAGINI, Paolo ; DELP, Edward ; ROCHA, ANDERSON . Explainable Artifacts for Synthetic Western Blot Source Attribution. In: 2024 IEEE International Workshop on Information Forensics and Security (WIFS), 2024, Rome. 2024 IEEE International Workshop on Information Forensics and Security (WIFS), 2024. p. 1.

BERTOCCO, Gabriel ; ANDALÓ, FERNANDA ; BOULT, TERRANCE ; ROCHA, ANDERSON . Vision through distortions: Atmospheric Turbulence-and Clothing-invariant long-range recognition. In: 2024 IEEE International Workshop on Information Forensics and Security (WIFS), 2024, Rome. 2024 IEEE International Workshop on Information Forensics and Security (WIFS), 2024. p. 1.

YANG, JING ; ROCHA, ANDERSON . Take It Easy: Label-Adaptive Self-Rationalization for Fact Verification and Explanation Generation. In: 2024 IEEE International Workshop on Information Forensics and Security (WIFS), 2024, Rome. 2024 IEEE International Workshop on Information Forensics and Security (WIFS), 2024. p. 1.

NASCIMENTO, JOSÉ ; JACOBS, NATHAN ; ROCHA, ANDERSON . Interactive Event Sifting using Bayesian Graph Neural Networks. In: 2024 IEEE International Workshop on Information Forensics and Security (WIFS), 2024, Rome. 2024 IEEE International Workshop on Information Forensics and Security (WIFS), 2024. p. 1.

WERNECK, RAFAEL ; LUSQUINO FILHO, LEOPOLDO ; LUSTOSA, Augusto ; LOOMBA, Ashish ; GONCALVES, Maiara M. ; ESMIN, Ahmed A. A. ; SALAVATI, Soroor ; MORAIS, Elaine ; MENDES JR., Pedro Ribeiro ; ZAMPIERI, MARCELO ; AMARAL, Murilo ; LINARES, OSCAR ; AVILA, Manuel C. ; MOURA, Renato ; SCHIOZER, Denis ; FERREIRA, Alexandre Melo ; DAVOLIO, Alessandra ; ROCHA, Anderson . Watch the Reservoir! Improving Short-Term Production

Forecast Through Transformers. In: SPE Europe Energy Conference & Exhibition, 2024, Turin. SPE Europe Energy Conference & Exhibition, 2024.

GONCALVES, Maiara M. ; WERNECK, Rafael O. ; AVILA, Manuel C. ; AMARAL, Murilo ; MENDES JR., Pedro Ribeiro ; LUSQUINO-FILHO, Leopoldo ; ESMIN, Ahmed A. A. ; MOURA, Renato ; MORAIS, Elaine ; LINARES, OSCAR ; LUSTOSA, Augusto ; SALAVATI, Soroor ; SCHIOZER, Denis ; FERREIRA, Alexandre Melo ; DAVÓLIO, ALESSANDRA ; ROCHA, Anderson . Enhancing Short-term Production Forecast in Oil Fields: Integrating Data-driven and Model-based Approaches to Reduce Uncertainty. In: SPE Europe Energy Conference & Exhibition, 2024, Turin. SPE Europe Energy Conference & Exhibition, 2024.

DINIZ, MICHAEL MACEDO ; ROCHA, ANDERSON . Open-Set Deepfake Detection To Fight The Unknown. In: ICASSP 2024 2024 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2024, Seoul. ICASSP 2024 - 2024 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2024. p. 13091.

CAMPOS, CRISTIANO G. S. ; SOUSA, R. N. ; Armelin, Hugo A. ; Reis, M. S. . Modeling cell signaling pathways through universal differential equations and joint inference of first-principle parameters and neural network weights. In: 17th Brazilian Symposium on Bioinformatics (BSB 2024), 2024, Vitória. Proceedings do BSB 2024, 2024.

SCHOLL, BRUNO B. ; PALMA, L. C. ; HARIKI, V. S. ; ELIAS, M. C. ; Reis, M. S. . Tuning a predictive DNA replication programming computational model for Trypanosomatids. In: 17th Brazilian Symposium on Bioinformatics (BSB 2024), 2024, Vitória. Proceedings do BSB 2024, 2024.

ARAUJO, P. A. M. ; HADDADI, S. J. ; SILVA, F. S. ; Reis, M. S. ; REIS, J. C. . Topic Modeling Influence in Sentiment Analysis from User-generated Product Reviews. In: 32nd International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE 2024), 2024, Reggio Emilia. Proceedings do WETICE 2024, 2024.

SILVA, F. S. ; KAKIMOTO, G. K. ; REIS, J. C. ; Reis, M. S. . ERASMO: Leveraging Large Language Models for Enhanced Clustering Segmentation. In: 34th

BRAZILIAN CONFERENCE ON INTELLIGENT SYSTEMS (BRACIS), 2024, Belém. Proceedings do BRACIS 2024, 2024.

KAKIMOTO, GABRIEL K. ; HADDADI, SEYED J. ; ARAÚJO, PATRICK M. ; SILVA, FILLIPE S. ; DOS REIS, JULIO C. ; REIS, MARCELO DA SILVA . B2T: A Dataset of Tweets in Portuguese Language about Brazilian Banks. In: Dataset Showcase Workshop, 2024, Brasil. Anais do VI Dataset Showcase Workshop (DSW 2024). p. 1.

SILVA, F. S. ; REIS, J. C. ; Reis, M. S. . SERIEMA: A Framework to Enhance Clustering Stability, Compactness, and Separation by Fusing Multimodal Data. In: 29th International Conference on Applications of Natural Language to Information Systems, NLDB 2024, 2024, Turim. Natural Language Processing and Information Systems, 2024. v. 14762. p. 394-408.

FARACCO, JULIO C. ; NAPOLI, OTÁVIO O. ; SERÓDIO, JOÃO ; ASTUDILLO, CARLOS A. ; Villas, Leandro A. ; BORIN, EDSON ; SOUZA, ALAN ; MIRANDA, DANIEL ; PAULO NAVARRO, JOÃO . DASF: A high-performance and scalable framework for large seismic datasets. In: Fourth International Meeting for Applied Geoscience & Energy, 2024, Houston. Fourth International Meeting for Applied Geoscience & Energy. p. 2254.

CAPANEMA, CLÁUDIO G. S. ; DA COSTA, JOAHANNES B. D. ; SILVA, FABRÍCIO A. ; Villas, Leandro A. ; LOUREIRO, ANTONIO A. F. . A Modular Plugin for Concept Drift in Federated Learning. In: 2024 20th International Conference on Distributed Computing in Smart Systems and the Internet of Things (DCOSSIoT), 2024, Abu Dhabi. 2024 20th International Conference on Distributed Computing in Smart Systems and the Internet of Things (DCOSS-IoT), 2024. p. 101.

JORGE, JHON ; GUEVARA, JUDY C. ; Guidoni, Daniel L. ; Ramos, Heitor S. ; Villas, Leandro A. ; DA FONSECA, NELSON L. S. . Tremor Detection in Parkinson's Disease from Wearable Data: A Comparative Study of Centralized Learning versus Federated Learning. In: 2024 20th International Conference on Distributed Computing in Smart Systems and the Internet of Things (DCOSSIoT), 2024, Abu Dhabi. 2024 20th International Conference on Distributed Computing in Smart Systems and the Internet of Things (DCOSS-IoT), 2024. p. 724.

LOBATO, WELLINGTON ; COSTA, JOAHANNES B. D. DA ; SOUZA, ALLAN M. DE ; ROSÁRIO, DENIS ; SOMMER, CHRISTOPH ; Villas, Leandro . Dynamic Semi-Synchronous Federated Learning for Connected Autonomous Vehicles. In: Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos, 2024, Brasil. Anais do XLII Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC 2024). p. 281.

MOHAMED, AISSA H. ; SOUZA, ALLAN M. DE ; COSTA, JOAHANNES B. D. DA ; Villas, Leandro A. ; REIS, JULIO C. DOS . FedSeleKDistill: Empoderando a Escolha de Clientes com a Destilação do Conhecimento para Aprendizado Federado em Dados Não-IID. In: Workshop de Computação Urbana, 2024, Brasil. Anais do VIII Workshop de Computação Urbana (CoUrb 2024). p. 71.

ALVES, VINÍCIUS R. M. ; COSTA, JOAHANNES B. D. DA ; GONZALEZ, LUIS F. G. ; SOUZA, ALLAN M. DE ; Villas, Leandro A. . Seleção de Clientes Adaptativa baseada em Privacidade Diferencial para Aprendizado Federado. In: Anais Estendidos do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos, 2024, Brasil. Anais Estendidos do XLII Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC 2024). p. 225.

MORAIS, MARCOS G. O. ; COSTA, JOAHANNES B. D. DA ; GONZALEZ, LUIS F. G. ; SOUZA, ALLAN M. DE ; Villas, Leandro A. . Mecanismo para Mitigar Ataques de Envenenamento de Modelo no Aprendizado Federado. In: Workshop de Computação Urbana, 2024, Brasil. Anais do VIII Workshop de Computação Urbana (CoUrb 2024). p. 224.

ASSUMPÇÃO, NICOLAS R. G. ; Villas, Leandro A. . Rápido, Privado e Protegido: Uma Abordagem para Aprendizado Federado Eficiente em Ambiente Hostil. In: Workshop de Computação Urbana, 2024, Brasil. Anais do VIII Workshop de Computação Urbana (CoUrb 2024). p. 15.

CAPANEMA, CLÁUDIO G. S. ; COSTA, JOAHANNES B. D. DA ; SILVA, FABRÍCIO A. ; Villas, Leandro A. ; LOUREIRO, ANTONIO A. F. . Treine Menos, Preveja Mais: plugin de Aprendizado Federado habilita alta eficiência em dados heterogêneos. In: Workshop de Computação Urbana, 2024, Brasil. Anais do VIII Workshop de Computação Urbana (CoUrb 2024). p. 85.

COSTA, JOAHANNES B. D. DA ; SOUZA, ALLAN M. DE ; ROSÁRIO, DENIS ; Villas, Leandro . TEMIS: Provisionamento de Justiça na Utilização de Recursos Computacionais em Nuvens Veiculares. In: Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos, 2024, Brasil. Anais do XLII Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC 2024). p. 15.

TALASSO, GABRIEL U. ; DE SOUZA, ALLAN M. ; BITTENCOURT, LUIZ F. ; CERQUEIRA, EDUARDO ; LOUREIRO, ANTONIO A. F. ; Villas, Leandro A. . FedSCCS: Hierarchical Clustering with Multiple Models for Federated Learning. In: ICC 2024 IEEE International Conference on Communications, 2024, Denver. ICC 2024 - IEEE International Conference on Communications, 2024. p. 3280.

MARTINS, BRUNO S. ; SOUZA, ALLAN M. ; ROSÁRIO, DENIS ; ASTUDILLO, CARLOS A. ; CERQUEIRA, EDUARDO ; Villas, Leandro . Partial Training Mechanism to Handle the Impact of Stragglers in Federated Learning with Heterogeneous Clients. In: 2024 IEEE Symposium on Computers and Communications (ISCC), 2024, Paris. 2024 IEEE Symposium on Computers and Communications (ISCC), 2024. p. 1.

GARDIN ASSUMPCAO, NICOLAS RICCIERI ; Villas, Leandro . Fast, Private, and Protected: Safeguarding Data Privacy and Defending Against Model Poisoning Attacks in Federated Learning. In: 2024 IEEE Symposium on Computers and Communications (ISCC), 2024, Paris. 2024 IEEE Symposium on Computers and Communications (ISCC), 2024. p. 1.

MOHAMED, AISSA H. ; DA COSTA, JOAHANNES B. D. ; Villas, Leandro A. ; DOS REIS, JULIO C. ; DE SOUZA, ALLAN M. . Combining Client Selection Strategy with Knowledge Distillation for Federated Learning in non-IID Data. In: 2024 IEEE Symposium on Computers and Communications (ISCC), 2024, Paris. 2024 IEEE Symposium on Computers and Communications (ISCC), 2024. p. 1.

BARROS, PEDRO H. ; GUEVARA, JUDY C. ; Villas, Leandro ; GUIDONI, DANIEL ; DA FONSECA, NELSON L. S. ; Ramos, Heitor S. . Hierarchical federated learning based on ordinal patterns for detecting sedentary

behavior. In: 2024 International Joint Conference on Neural Networks (IJCNN), 2024, Yokohama. 2024 International Joint Conference on Neural Networks (IJCNN), 2024. p. 1.

MACIEL, FILIPE ; DA COSTA, JOAHANNES B. D. ; GONZALEZ, LUIS F. G. ; DE SOUZA, ALLAN M. ; Villas, Leandro A. ; BITTENCOURT, LUIZ F. . Adaptive Fit Fraction Based on Model Performance Evolution in Federated Learning. In: 2024 11th International Conference on Future Internet of Things and Cloud (FiCloud), 2024, Vienna. 2024 11th International Conference on Future Internet of Things and Cloud (FiCloud), 2024. p. 77.

LOBATO, WELLINGTON ; DA COSTA, JOAHANNES B. D. ; GONZALEZ, LUIS F. G. ; CERQUEIRA, EDUARDO ; ROSÁRIO, DENIS ; SOMMER, CHRISTOPH ; Villas, Leandro A. . Entropy and Mobility-Based Model Assignment for Multi-Model Vehicular Federated Learning. In: 2024 2nd International Conference on Federated Learning Technologies and Applications (FLTA), 2024, Valencia. 2024 2nd International Conference on Federated Learning Technologies and Applications (FLTA), 2024. p. 8.

BRAUN, CARNOT ; DA COSTA, JOAHANNES B. D. ; Villas, Leandro A. ; DE SOUZA, ALLAN M. . EcoPredict: Assessing Distributed Machine Learning Methods for Predicting Urban Emissions. In: 2024 IEEE 100th Vehicular Technology Conference (VTC2024Fall), 2024, Washington. 2024 IEEE 100th Vehicular Technology Conference (VTC2024-Fall), 2024. p. 1.

SANTOS, FRANCES ALBERT ; SILVA, THIAGO HENRIQUE ; VILLAS, LEANDRO APARECIDO . Urban Perception Extraction from Texts Shared on Social Media: Framework and Applications. In: Anais Estendidos do Simpósio Brasileiro de Sistemas Multimídia e Web, 2024, Brasil. Anais Estendidos do XXX Simpósio Brasileiro de Sistemas Multimídia e Web (WebMedia 2024). p. 25.

VEIGA, RAFAEL ; MORAIS, RENAN ; BASTOS, LUCAS ; Villas, Leandro ; ROSÁRIO, DENIS ; CERQUEIRA, EDUARDO . Resilience-Aware Quarantine Selection Mechanism for Federated Learning Environments. In: 2024 IEEE 13th International Conference on Cloud Networking (CloudNet), 2024, Rio de Janeiro. 2024 IEEE 13th International Conference on Cloud Networking (CloudNet), 2024. p. 1.

ASSUNCAO, N. ; Villas, Leandro A. . Fast, Private, and Protected: Safeguarding Data Privacy and Defending Against Model Poisoning Attacks in Federated Learning. In: IEEE Symposium on Computers and Communications (ISCC), 2024, Paris. IEEE Symposium on Computers and Communications (ISCC), 2024.

MARTINS, B. ; SOUZA, A. ; ROSARIO, D. ; CERQUEIRA, E. ; Villas, Leandro A. . Partial Training Mechanism to Handle the Impact of Stragglers in Federated Learning with Heterogeneous Clients. In: IEEE Symposium on Computers and Communications (ISCC), 2024, Paris. IEEE Symposium on Computers and Communications (ISCC), 2024.

HADJ MOHAMED, AISSA ; JOAHANNES B. D. DA, COSTA ; Villas, Leandro A. . Combining Client Selection Strategy with Knowledge Distillation for Federated Learning in Non-IID Data. In: IEEE Symposium on Computers and Communications (ISCC), 2024, Paris. IEEE Symposium on Computers and Communications (ISCC), 2024.

TALASSO, GABRIEL UKSTIN ; BITTENCOURT, L. F. ; CERQUEIRA, Eduardo Coelho ; LOUREIRO, A. A. F. ; Villas, Leandro A. . FedSCCS: Hierarchical Clustering with Multiple Models for Federated Learning. In: IEEE International Conference on Communications, 2024, Denver. IEEE International Conference on Communications, 2024.

MORAES, M. ; JOAHANNES B. D. DA, COSTA ; SOUZA, A. M. ; Villas, Leandro A. . Mecanismo para Mitigar Ataques de Envenenamento de Modelo no Aprendizado Federado. In: CoUrb, 2024, Rio de Janeiro. Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos, 2024.

CAPANEMA, CLÁUDIO G. S. ; Villas, Leandro A. ; LOUREIRO, A. A. F. . Treine Menos, Preveja Mais: Plugin de Aprendizado Federado Habilita Alta Eficiência em Dados Heterogêneos. In: CoUrb, 2024, Rio de Janeiro. Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos, 2024.

ASSUNCAO, N. ; VILLAS, Leandro Aparecido . Rápido, Privado e Protegido: Uma Abordagem para Aprendizado Federado Eficiente em Ambiente

Hostil. In: CoUrb, 2024, Rio de Janeiro. Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos, 2024.

HADJ MOHAMED, AISSA ; SOUZA, A. M. ; JOAHANNES B. D. DA, COSTA ; Villas, Leandro A. . FedSeleKDistill: Empoderando a Escolha de Clientes com a Destilação do Conhecimento para Aprendizado Federado em Dados Não-IID. In: CoUrb, 2024, Rio de Janeiro. Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos, 2024.

LOBATO JUNIOR, W. V. ; JOAHANNES B. D. DA, COSTA ; SOUZA, A. M. ; ROSARIO, D. ; Villas, Leandro A. . Dynamic Semi-Synchronous Federated Learning for Connected Autonomous Vehicles. In: SBRC, 2024, Rio de Janeiro. Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos, 2024.

JOAHANNES B. D. DA, COSTA ; SOUZA, A. M. ; ROSARIO, D. ; VILLAS, L.A. . TEMIS: Provisionamento de Justiça na Utilização de Recursos Computacionais em Nuvens Veiculares. In: SBRC, 2024, Rio de Janeiro. Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos, 2024.

SERÓDIO, J. ; NAPOLI, O.O. ; FARACCO, J.C. ; SOUZA, A. ; MIRANDA, D. ; ASTUDILLO, C.A. ; VILLAS, L.A. ; BORIN, E. . Accelerating Seismic Attribute Computation with Machine Learning Compilers. In: 85th EAGE Annual Conference & Exhibition Workshop Programme, 2024, Oslo. 85th EAGE Annual Conference & Exhibition (including the Workshop Programme). p. 1.

GUTIERREZ, G. ; ASTUDILLO, C. ; NAPOLI, O. ; MIRANDA, D. ; SOUZA, A. ; NAVARRO, J.P. ; VILLAS, L. ; BORIN, E. . Applying the Transformer Architecture for Semantic Segmentation of Seismic Facies. In: 85th EAGE Annual Conference & Exhibition Workshop Programme, 2024, Oslo. 85th EAGE Annual Conference & Exhibition (including the Workshop Programme). p. 1.

SANTOS, FRANCES A. ; SILVA, THIAGO H. ; Villas, Leandro A. . REAL-UP: Urban Perceptions From LBSNs Helping Moving Real-Estate Market to the Next Level. In: WWW '24: The ACM Web Conference 2024, 2024, Singapore

Singapore. Companion Proceedings of the ACM on Web Conference 2024, 2024. p. 1071.

RESCK, L. ; M. Raimundo, Marcos M. ; POCO, JORGE . Exploring the Trade-off Between Model Performance and Explanation Plausibility of Text Classifiers Using Human Rationales. In: NAACL 2024, 2024, Mexico City, Mexico. Findings of the Association for Computational Linguistics: NAACL 2024, 2024.

PACCOTACYA-YANQUE, Rosa ; BISSOTO, Alceu ; Avila, Sandra . Are explanations helpful? A comparative analysis of explainability methods in skin lesion classifiers. In: International Symposium on Medical Information Processing and Analysis (SIPAIM), 2024, Antígua. International Symposium on Medical Information Processing and Analysis (SIPAIM), 2024.

SILVA, Jhessica ; FERREIRA, ALEF ; MOREIRA, DIEGO ; SANTOS, GABRIEL ; BONIL, Gustavo ; GONDIM, João ; PEREIRA, Luiz ; MAIA, Helena ; SILVA, NADIA ; HASHIGUTI, Simone ; Avila, Sandra ; PEDRINI, HELIO . Avaliação de Ferramentas de Ética no Levantamento de Considerações Éticas de Modelos de Linguagem em Português. In: Conferência LatinoAmericana de Ética em Inteligência Artificial, 2024, Brasil. Anais da I Conferência Latino-Americana de Ética em Inteligência Artificial (LAAI-Ethics 2024), 2024. p. 61.

MOREIRA, Diego A. B. ; FERREIRA, Alef I. ; SILVA, Jhessica ; SANTOS, Gabriel O. ; PEREIRA, Luiz ; GONDIM, João ; BONIL, Gustavo ; MAIA, Helena A. ; SILVA, Nádia ; HASHIGUTI, Simone ; SANTOS, Jefersson A. ; PEDRINI, Hélio ; AVILA, Sandra . FairPIVARA: Reducing and assessing biases in CLIP-based multimodal models. In: Privacy, Fairness, Accountability and Transparency in Computer Vision (PFATCV) at BMVC'24, 2024, Glasgow. Privacy, Fairness, Accountability and Transparency in Computer Vision (PFATCV) at BMVC'24, 2024.

BENATTI, RAYSA ; SEVERI, FABIANA ; Avila, Sandra ; Colombini, Esther Luna . Gender Bias Detection in Court Decisions: A Brazilian Case Study. In: FAccT '24: The 2024 ACM Conference on Fairness, Accountability, and Transparency, 2024, Rio de Janeiro Brazil. The 2024 ACM Conference on Fairness, Accountability, and Transparency, 2024. p. 746-763.

2023

FERREIRA, VITOR HUGO DE SOUSA ; CASTRO, MANUEL ; MOURA, Renato ; WERNECK, Rafael de Oliveira ; ZAMPIERI, MARCELO FERREIRA ; GONÇALVES, MAIARA MOREIRA ; LINARES, OSCAR ; SALAVATI, Soroor ; LUSQUINO FILHO, LEOPOLDO ANDRE DUTRA ; RIBEIRO MENDES JÚNIOR, PEDRO ; MELLO FERREIRA, ALEXANDRE ; DAVOLIO, Alessandra ; SCHIOZER, DENIS JOSE ; ROCHA, ANDERSON . A New Hybrid Data-Driven and Model-Based Methodology for Improved Short-Term Production Forecasting. In: Offshore Technology Conference, 2023, Houston. Day 4 Thu, May 04, 2023, 2023.

BATISTA, M. ; MONTONI, F. ; CAMPOS, C. ; NOGUEIRA, R. ; ARMELIN, H. A. ; Reis, Marcelo S. . A Framework for Inference and Selection of Cell Signaling Pathway Dynamic Models. In: 16th Brazilian Symposium on Bioinformatics, 2023, Curitiba. Advances in Bioinformatics and Computational Biology, 2023. v. 13954. p. 82-93.

SOUSA, R. N. ; CAMPOS, C. G. S. ; WANG, W. ; HASHIMOTO, R. F. ; ARMELIN, H. A. ; Reis, Marcelo S. . Exploring Identifiability in Hybrid Models of Cell Signaling Pathways. In: 16th Brazilian Symposium on Bioinformatics, 2023, Curitiba. Advances in Bioinformatics and Computational Biology, 2023. v. 13954. p. 148-159.

CHAVES, Levy G. ; BISSOTO, Alceu ; VALLE, Eduardo ; AVILA, Sandra . The Performance of Transferability Metrics Does Not Translate to Medical Tasks. In: MICCAI Workshop on Domain Adaptation and Representation Transfer (DART), 2023, Vancouver. International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2023.

BISSOTO, Alceu ; BARATA, Catarina ; VALLE, Eduardo ; AVILA, Sandra . Test-Time Selection for Robust Skin Lesion Analysis. In: ISIC Skin Image Analysis Workshop, 2023, Vancouver. International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2023.

BARROS, Luana ; CHAVES, Levy G. ; AVILA, Sandra . Assessing the generalizability of deep neural networks-based models for black skin lesions. In: Iberoamerican Congress on Pattern Recognition (CIARP), 2023, Coimbra. Progress in Pattern Recognition, Image Analysis, Computer

Vision, and Applications. Cham: Springer Nature Switzerland, 2023. v. 14470. p. 1-14.

SANTOS, Gabriel O. ; MOREIRA, Diego A. B. ; FERREIRA, Alef I. ; SILVA, Jhessica ; PEREIRA, Luiz ; BUENO, Pedro ; SOUSA, Thiago ; MAIA, Helena ; SILVA, Nádia ; COLOMBINI, Esther ; PEDRINI, Hélio ; AVILA, Sandra. CAPIVARA: Cost-efficient approach for improving multilingual CLIP performance on low-resource languages. In: Workshop on Multi-lingual Representation Learning (MRL), 2023, Cingapura. Proceedings of the 202e Conference on Empirical Methods in Natural Language Processing, 2023.

2022

YANG, JING ; VEGA-OLIVEROS, Didier ; SEIBT, TAIS ; ROCHA, ANDERSON . Explainable Fact-Checking Through Question Answering. In: ICASSP 2022 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2022, Singapore. ICASSP 2022 – 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2022. p. 8952-8957.

THEOPHILO, ANTONIO ; ROCHA, ANDERSON . Authorship Attribution of Small Messages Through Language Models. In: 2022 IEEE International Workshop on Information Forensics and Security (WIFS), 2022, Shanghai. 2022 IEEE International Workshop on Information Forensics and Security (WIFS), 2022. p. 1-8.

NASCIMENTO, JOSE ; CARDENUTO, JOAO PHILLIPE ; YANG, JING ; ROCHA, ANDERSON . Few-shot Learning for Multi-modal Social Media Event Filtering. In: 2022 IEEE International Workshop on Information Forensics and Security (WIFS), 2022, Shanghai. 2022 IEEE International Workshop on Information Forensics and Security (WIFS), 2022. p. 1-8.

THEOPHILO, ANTONIO ; PADILHA, Rafael ; ANDALO, Fernanda A. ; ROCHA, ANDERSON . Explainable Artificial Intelligence for Authorship Attribution on Social Media. In: ICASSP 2022 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2022, Singapore. ICASSP

2022 – 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2022. p. 2909-2914.

CIRNE, M. ; MALEKI, M. ; SCHIOZER, D. ; ROCHA, A. ; DAVOLIO, A. . An Integrated Machine-Learning Inverse Workflow to Estimate Fluid Variations Utilizing Seismic and Engineering Data. In: First EAGE/SBGf Workshop on Reservoir Monitoring and its Role in the Energy Transition, 2022, Rio de Janeiro. First EAGE/SBGf Workshop on Reservoir Monitoring and its Role in the Energy Transition, 2022. p. 1-8.

Soriano-Vargas, Aurea ; WERNECK, RAFAEL ; GONCALVES, Maiara M. ; PEREIRA, Eduardo ; LUSQUINO-FILHO, Leopoldo ; SALAVATI, Soroor ; HOSSAIN, Manzur ; FERREIRA, ALEXANDRE ; DAVOLIO, Alessandra ; SCHIOZER, DENIS JOSE ; ROCHA, Anderson . Detecting anomalies in production data using machine learning techniques. In: Proc. of the Rio Oil & Gas Expo and Conference, 2022, Rio de Janeiro. Proc. of the Rio Oil & Gas Expo and Conference, 2022. p. 1-8.

LUSQUINO-FILHO, Leopoldo ; WERNECK, RAFAEL ; MENDES JUNIOR, PEDRO ; AVILA, Manuel C. ; PEREIRA, Eduardo ; MOURA, Renato ; FERREIRA, Vitor ; Ferreira, Alexandre M. ; DAVÓLIO, ALESSANDRA ; ROCHA, ANDERSON . Oil production and pressure multimodal forecasting integrating high-frequency production data. In: Proc. of the Rio Oil & Gas Expo and Conference, 2022, Rio de Janeiro. Proc. of the Rio Oil & Gas Expo and Conference, 2022. p. 1-8.

MARTINEZ, Victor ; ROCHA, ANDERSON . Data-driven forecasting of oil & gas production: a recurrent neural networks approach. In: Proc. of the Rio Oil & Gas Expo and Conference, 2022, Rio de Janeiro. Proc. of the Rio Oil & Gas Expo and Conference, 2022. p. 1-8.

GUARDIEIRO, V. ; M. RAIMUNDO, MARCOS ; POCO, J. . Analyzing the Equity of the Brazilian National High School Exam by Validating the Item Response Theory's Invariance. In: International Conference on Educational Data Mining, 2022, Durham. Proceedings of the 15th International Conference on Educational Data Mining, International Educational Data Mining Society, 2022.

LARANJEIRA DA SILVA, CAMILA ; MACEDO, JOAO ; Avila, Sandra ; DOS SANTOS, JEFERSSON . Seeing without Looking: Analysis Pipeline for Child Sexual Abuse Datasets. In: FAcCT '22: 2022 ACM Conference on Fairness, Accountability, and Transparency, 2022, Seoul Republic of Korea. 2022 ACM Conference on Fairness, Accountability, and Transparency. New York: ACM, 2022. p. 2189.

BISSOTO, Alceu ; BARATA, Catarina ; VALLE, Eduardo ; AVILA, Sandra . Artifact-Based Domain Generalization of Skin Lesion Models. In: ISIC Skin Image Analysis Workshop, 2022, Tel Aviv, Israel. European Conference on Computer Vision Workshops, 2022.

CHAVES, L. G. ; BISSOTO, Alceu ; VALLE, Eduardo ; AVILA, Sandra . An Evaluation of Self-supervised Pre-training for Skin-lesion Analysis. In: ISIC Skin Image Analysis Workshop, 2022, Tel Aviv, Israel. European Conference on Computer Vision Workshops, 2022.

BENATTI, Raysa M. ; VILLARROEL, Camila M. L. ; AVILA, Sandra ; COLOMBINI, Esther ; SEVERI, Fabiana C. . Should I Disclose my Dataset? Caveats between Reproducibility and Individual Data Rights. In: Workshop on Natural Legal Language Processing, 2022, Abu Dhabi. Proceedings of the Natural Legal Language Processing Workshop, 2022. p. 228-237.

2021

BISSOTO, ALCEU, VALLE, EDUARDO, AVILA, SANDRA. "GAN-Based Data Augmentation and Anonymization for Skin-Lesion Analysis: A Critical Review". In: IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2021.

LAVI, BAHRAM; NASCIMENTO, JOSÉ DORIVALDO; ROCHA, ANDERSON. Semi-supervised Feature Embedding for Data Sanitization in Real-World Events. In: IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2021, Toronto. Prof. of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2021.

2020

ANDRADE, F.; ARANHA, C.; AND TORRES, R. "On the Use of Predation to Shape Evolutionary Computation," 2020 IEEE Symposium Series on Computational Intelligence (SSCI), 2020, pp. 117-124.

BISSOTO, A.; VALLE, E.; AND AVILA, S. "Debiasing Skin Lesion Datasets and Models? Not So Fast," 2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2020, pp. 3192-3201.

BOLLIS, E.; PEDRINI, H.; AND AVILA, S. "Weakly Supervised Learning Guided by Activation Mapping Applied to a Novel Citrus Pest Benchmark," 2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2020, pp. 310-319, doi: 10.1109/CVPRW50498.2020.00043.

DECKER., LUIS GUSTAVO LORGUS; PINTO, ALLAN; FLORES CAMPANA, JOSE LUIS; CÓRDOVA NEIRA, MANUEL; DOS SANTOS, ANDREZA A.; CONCEIÇÃO, JHONATAS S.; ANGELONI, MARCUS A.; LI, LIN TZY; AND TORRES, RICARDO DA S. Mobtext: A compact method for scene text localization. In Proceedings of the 15th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - Volume 5: VISAPP,, pages 343–350. INSTICC, SciTePress, 2020.

DOUILLARD, ARTHUR; CORD, MATTHIEU; OLLION, CHARLES; ROBERT, THOMAS; VALLE, EDUARDO. PODNet: Pooled Outputs Distillation for Small-Tasks Incremental Learning. In: 16th European Conference on Computer Vision, ECCV 2020, 2020, Glasgow. Proceedings of the 16th European Conference on Computer Vision, ECCV 2020, 2020.

MARTINEZ, V.; AND ROCHA, A. Oil & Gas Production Forecasting based on LSTMs. First EAGE Conference on Machine Learning in Americas. vol. 2020issue 1(2020) pp: 1-5. Published by European Association of Geoscientists & Engineers.

NIKOLENTZOS, G.; THOMAS, M.; RAMÍREZ RIVERA, A.; VAZIRGIANNIS, M. Image Classification using Graph-based Representations and Graph Neural Networks. In: International Conference Complex Networks and their

Applications, 2020, Madrid. International Conference Complex Networks and their Applications, 2020.

OLIVEIRA, ALBERTO; ROCHA, ANDERSON. Contextual Features and Sequence Labeling Techniques for Relevance Prediction in Retrieval. In: 2020 International Conference on Systems, Signals and Image Processing (IWSSIP), 2020, Niterói. 2020 International Conference on Systems, Signals and Image Processing (IWSSIP), 2020. p. 305-310.

OLIVEIRA, J. S.; SOUZA, G. B. ; ROCHA, ANDERSON; DEUS, F. E.; MARANA, APARECIDO NILCEU. Cross-Domain Deep Face Matching for Real Banking Security Systems. In: Intl. Conference on eDemocracy and eGovernment, 2020, Buenos Aires. Proc. of the Intl. Conference on eDemocracy and eGovernment, 2020. p. 1-8.

PADILHA, RAFAEL; ANDALO, FERNANDA A.; ROCHA, ANDERSON. Improving the Chronological Sorting of Images through Occlusion: A Study on the Notre-Dame Cathedral Fire. In: ICASSP 2020 2020 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2020, Barcelona. ICASSP 2020 - IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2020. p. 2972-2975.

PEIXOTO, BRUNO; LAVI, BAHRAM ; BESTAGINI, PAOLO; DIAS, ZANONI; ROCHA, ANDERSON. Multimodal Violence Detection in Videos. In: ICASSP 2020 2020 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2020, Barcelona. ICASSP 2020 - 2020 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2020. p. 2957-2960.

PINTO, A.; CORDOVA, M.; DECKER, L.G.; FLORES-CAMPANA, J.L.; SOUZA, M.R.; SANTOS, A.A.; CONCEIÇÃO, J.S.; GAGLIARDI, H.F.; LUVIZON, D.; TORRES, R.; & PEDRINI, H. (2020). Parallax Motion Effect Generation Through Instance Segmentation And Depth Estimation. 2020 IEEE International Conference on Image Processing (ICIP), 1621-1625.

RIBEIRO, V.; AVILA, S.; AND VALLE, E. "Less is More: Sample Selection and Label Conditioning Improve Skin Lesion Segmentation," 2020 IEEE/CVF

Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2020, pp. 3182-3191.

SCHWARZ, STEPHANE; THEOPHILO, ANTONIO; ROCHA, ANDERSON. EMET: Embeddings from Multilingual-Encoder Transformer for Fake News Detection. In: ICASSP 2020 2020 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2020, Barcelona. ICASSP 2020 - 2020 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2020. p. 2777-2780.

SILVA, M.V.S.; BITTENCOURT, L.; RAMÍREZ RIVERA, A. Towards Federated Learning in Edge Computing for Real-Time Traffic Estimation in Smart Cities. In: Workshop of Urban Computation, 2020, Rio de Janeiro. Workshop of Urban Computation, 2020.

SORIANO-VARGAS, A.; ROLLMANN, K.; LA ROSA ALMEIDA, F.; DAVOLIO, A., HAMANN, B.; JOSÉ SCHIOZER, D.; & ROCHA, A. (2020, July). Leveraging Phylogenetic Trees to Assess Variability of Reservoir Models. In SPE Latin American and Caribbean Petroleum Engineering Conference. Society of Petroleum Engineers.

2019

BISSOTO, A.; FORNACIALI, M.; VALLE, E.; AND AVILA, S. "(De)Constructing Bias on Skin Lesion Datasets," 2019 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2019, pp. 2766-2774.

BHARATI, APARNA; MOREIRA, D. H.; BROGAN, JOEL; HALE, PATRICIA; BOWYER, KEVIN; FLYNN, PATRICK; ROCHA, ANDERSON; SCHEIRER, WALTER J. Beyond Pixels: Image Provenance Analysis Leveraging Metadata. In: IEEE Intl. Winter Conference on Applications of Computer Vision (WACV), 2019, Waikoloa Village. Proc. of the 2019 IEEE Intl. Winter Conference on Applications of Computer Vision (WACV), 2019.

CIRNE, M.; ANDALÓ, F.; DIAS, R.; RESEK, T.; BERTOCCO, G.; TORRES, R. D. S.; & ROCHA, A. (2019, September). Deep Face Verification for Spherical Images. In 2019 IEEE International Conference on Image Processing (ICIP) (pp. 3292-3296). IEEE.

COELHO, THAMIRIS; ARAUJO, LUCAS M.; COIMBRA, TIAGO A. A.; TYGEL, MARTIN; AVILA, SANDRA; BORIN, EDSON. Automatic Detection of Diffraction-apex using Fully Convolutional Networks. In: 16th International Congress of the Brazilian Geophysical Society and EXPOGEf, 2019, Rio de Janeiro. Proceedings of the 16th International Congress of the SBGf, 2019.

CONCEIÇÃO, J.; PINTO, A.; DECKER, L.; CAMPANA, J.; CORDOVA, M.; DOS SANTOS, A.; PEDRINI, H.; & TORRES, R. (2019). Multi-Lingual Text Localization via Language-Specific Convolutional Neural Networks. In Anais Estendidos da XXXII Conference on Graphics, Patterns and Images, (pp. 215-218). Porto Alegre: SBC.

CÓRDOVA, M.; ET AL., "Pelee-Text: A Tiny Convolutional Neural Network for Multi-oriented Scene Text Detection," 2019 18th IEEE International Conference On Machine Learning And Applications (ICMLA), 2019, pp. 400-405.

DIAS, D.; DIAS, U.; MENINI, N.; LAMPARELLI, R.; MAIRE, G.; AND TORRES, R. "Pixelwise Remote Sensing Image Classification Based on Recurrence Plot Deep Features," 2019 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2019, pp. 1310-1313.

DESTRO, J.; REIS, J.; TORRES, R.; AND RICARTE, I. "Evolution-based Refinement of Cross-language Ontology Alignments," Simpósio Brasileiro de Banco de Dados (SBBD), 2019, pp. 61-72.

DESTRO, J.; REIS, J.; TORRES, R.; AND RICARTE, I. "Ontology Changes-Driven Semantic Refinement of Cross-Language Biomedical Ontology Alignments," Workshop on Semantic Web Solutions for Large-Scale Biomedical Data Analytics co-located with 18th International Semantic Web Conference, 2019, pp. 1-15.

DESTRO, J.; VARGAS, J.; REIS, J.; AND TORRES, R. "EVOCROS: Results for OAEI 2019," 14th International Workshop on Ontology Matching co-located with the 18th International Semantic Web Conference, 2019, pp. 131-137

DOURADO, I.; TABBONE, S.; AND TORRES, R. "Event Prediction Based on Unsupervised Graph-Based Rank-Fusion Models," Graph-based Representation in Pattern Recognition (GbRPR), 2019, pp. 88-98.

GUTIERREZ-CASTILLA, N.; TORRES, R.; FALCÃO, A.; KOZERKE, S.; SCHWITTER, J.; MASCI, P.; AND MONTOYA-ZEGARRA, J. "Long-Range Decoder Skip Connections: Exploiting Multi-Context Information for Cardiac Image Segmentation," 32nd SIBGRAPI Conference on Graphics, Patterns and Images, 2019, pp. 60-67.

ISHIKAWA, A.; BOLLIS, E.; AND AVILA, S. "Combating the Elsatage Phenomenon: Deep Learning Architectures for Disturbing Cartoons," 2019 7th International Workshop on Biometrics and Forensics (IWBF), 2019, pp. 1-6, doi: 10.1109/IWBF.2019.8739202.

KHUSAINOVA, A.; KHAN, A.; RAMIREZ RIVERA, A. SART---Similarity, Analogies, and Relatedness for Tatar Language: New Benchmark Datasets for Word Embeddings Evaluation. In: International Conference on Computational Linguistics and Intelligent Text Processing, 2019, La Rochelle. Lecture Notes in Computer Science, 2019.

KIM, B.; RAMIREZ RIVERA, A.; CHAE, O.; KIM, J. Background Modeling Through Spatiotemporal Edge Feature and Color. In: International Symposium on Visual Computing, 2019, Nevada. Advances in Visual Computing, 2019. p. 196-208.

LEYVA, ROBERTO; SANTOS, GEISE K. S.; ROCHA, ANDERSON; SANCHEZ, VICTOR; LI, CHANG-TSUN. Accelerometer Dense Trajectories for Activity Recognition and People Identification. In: IAPR/IEEE Intl. Workshop on Biometrics and Forensics (IWBF), 2019, Cancun. IAPR/IEEE Intl. Workshop on Biometrics and Forensics (IWBF), 2019.

LEYVA, ROBERTO; SANTOS, GEISE K. S.; ROCHA, ANDERSON; SANCHEZ, VICTOR; LI, CHANG-TSUN. Accelerometer Dense Trajectories for Activity Recognition and People Identification. In: IAPR/IEEE Intl. Workshop on Biometrics and Forensics (IWBF), 2019, Cancun. IAPR/IEEE Intl. Workshop on Biometrics and Forensics (IWBF), 2019.

MALTA, EVA MAIA; AVILA, SANDRA; BORIN, EDSON. Exploring the Cost-benefit of AWS EC2 GPU Instances for Deep Learning Applications. In: the 12th IEEE/ACM International Conference, 2019, Auckland. Proceedings of the 12th IEEE/ACM International Conference on Utility and Cloud Computing - UCC'19. New York: ACM Press, 2019. p. 21.

MENDES JUNIOR, PEDRO; BONDI, LUCA; BESTAGINI, PAOLO; ROCHA, ANDERSON; TUBARO, STEFANO. RNU-based method to expose video device compositions in open set. In: IEEE Intl. Conference on Image Processing (ICIP), 2019, Taipei. IEEE Intl. Conference on Image Processing (ICIP), 2019.

MUÑOZ, J.; DIAS, Z.; AND TORRES, R. "A Genetic Programming Approach for Searching on Nearest Neighbors Graphs," International Conference on Multimedia Retrieval (ICMR), 2019, pp. 43-47.

OLIVEIRA, ALBERTO; ROCHA, ANDERSON . Score-Based Learning for Relevance Prediction in Image Similarity Search. In: IEEE Intl. Conference on Acoustics, Speech and Signal Processing (ICASSP), 2019, Brighton. IEEE Intl. Conference on Acoustics, Speech and Signal Processing (ICASSP), 2019.

PEIXOTO, B.; LAVI, B.; MARTIN, J. P. PEREIRA; AVILA, S.; DIAS, Z; AND ROCHA, A. "Toward Subjective Violence Detection in Videos," ICASSP 2019 - 2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2019, pp. 8276-8280.

PEREZ, F.; AVILA, S.; AND VALLE, E. "Solo or Ensemble? Choosing a CNN Architecture for Melanoma Classification," 2019 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2019, pp. 2775-2783.

PEREZ, MAURICIO L.; KOT, ALEX; ROCHA, ANDERSON. Detection of Real-world Fights in Surveillance Videos.. In: IEEE Intl. Conference on Acoustics, Speech and Signal Processing (ICASSP), 2019, Brighton. IEEE Intl. Conference on Acoustics, Speech and Signal Processing (ICASSP), 2019.

PINHEIRO, G.; CIRNE, M.; BESTAGINI, P.; TUBARO, S.; & ROCHA, A. (2019, September). Detection and Synchronization of Video Sequences for Event

Reconstruction. In 2019 IEEE International Conference on Image Processing (ICIP) (pp. 4060-4064). IEEE.

PRITSOS, DIMITRIOS; ROCHA, ANDERSON; STAMATATOS, EFSTATHIOS. Open-set Web Genre Identification Using Distributional Features and Nearest Neighbors Distance Ratio. In: European Conference on Information Retrieval (ECIR), 2019, Cologne, Germany. Proc. of the 2019 European Conference on Information Retrieval (ECIR), 2019.

RODRIGUES, CAROLINE M.; PEREIRA, LUIS AUGUSTO M.; ROCHA, ANDERSON; DIAS, ZANONI. Image Semantic Representation for Event Understanding. In: IEEE Intl. Workshop on Information Forensics and Security (WIFS), 2019, Delft. IEEE Intl. Workshop on Information Forensics and Security (WIFS), 2019. p. 1-6.

ROBLES, S.; GÓMEZ, J.; RAMIREZ RIVERA, A.; GONZÁLEZ, J.; PADILLA, N.; DUJOVNE, D. A Halo Merger Tree Generation and Evaluation Framework. In: ICML 2019 Workshop on Theoretical Physics for Deep Learning, 2019, Long Beach. ICML 2019 Workshop on Theoretical Physics for Deep Learning, 2019.

SAIRE, D.; RAMIREZ RIVERA, A. Graph Learning Network: A Structure Learning Algorithm. In: ICML 2019 Workshop on Learning and Reasoning with Graph-Structured Data, 2019, Long Beach. ICML 2019 Workshop on Learning and Reasoning with Graph-Structured Data, 2019.

SANTOS, E. S.; ALBERTON, B.; MORELLATO, L. P.; AND TORRES, R. DA SILVA. "Pixelwise Time Series Retrieval in Phenological Studies," IGARSS 2019 - 2019 IEEE International Geoscience and Remote Sensing Symposium, 2019, pp. 6586-6589.

TAVARES, E.; TORRES, R.; AND DOS SANTOS, J. "Evaluating Deep Contextual Description of Superpixels for Detection in Aerial Images," 2019 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2019, pp. 254-257.

THEOPHILO, ANTONIO; PEREIRA, LUIS AUGUSTO M.; ROCHA, ANDERSON. A needle in a haystack? Harness- ing onomatopoeia and user-specific

stylometrics for authorship attribution of micro-messages.. In: IEEE Intl. Conference on Acoustics, Speech and Signal Processing (ICASSP),, 2019, Brighton. IEEE Intl. Conference on Acoustics, Speech and Signal Processing (ICASSP), 2019.

TTITO, DARWIN; QUISPE, RODOLFO; RIVERA, ADIN RAMIREZ; PEDRINI, HELIO. Where are the People? A Multi-Stream Convolutional Neural Network for Crowd Counting via Density Map from Complex Images. In: 2019 International Conference on Systems, Signals and Image Processing (IWSSIP), 2019, Osijek. 2019 International Conference on Systems, Signals and Image Processing (IWSSIP), 2019. p. 241.

TAKEMOTO, NAOMI; ARAUJO, LUCAS M.; COIMBRA, TIAGO A. A.; TYGEL, MARTIN; AVILA, SANDRA; BORIN, EDSON. Enriching Synthetic Data with Real Noise using Neural Style Transfer. In: 16th International Congress of the Brazilian Geophysical Society and EXPOGEf, 2019, Rio de Janeiro. Proceedings of the 16th International Congress of the SBGf, 2019.

2018

ALMEIDA, A.; MENINI, N.; VERBESSELT, J.; AND TORRES, R. "BFAST Explorer: An Effective Tool for Time Series Analysis," 2018 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2018, pp. 4913-4916.

BISSOTO, ALCEU; PEREZ, FÁBIO; RIBEIRO, VINÍCIUS; FORNACIALI, MICHEL; ÁVILA, SANDRA; VALLE, EDUARDO. "Deep-Learning Ensembles for Skin-Lesion Segmentation, Analysis, Classification: RECOD Titans at ISIC Challenge 2018". In: ISIC Skin Image Analysis Workshop and Challenge, MICCAI 2018.

BISSOTO, ALCEU; PEREZ, FÁBIO; VALLE, EDUARDO; AVILA, SANDRA. "Skin Lesion Synthesis with Generative Adversarial Networks". In: International Conference on Medical Image Computing & Computer Assisted Intervention (MICCAI), 2018.

DESTRO, J.; DOS SANTOS, G.; DOS REIS, J.; TORRES, R.; CARVALHO, A.; AND RICARTE, I. "EVOCROS: results for OAEI 2018," 13th International Workshop on Ontology Matching co-located with the 17th International Semantic Web Conference, 2018, pp. 152-159.

NICASTRO, F.; BARANAUSKAS, CECILIA; TORRES, R. DA S. A Methodology to Conduct Computational Thinking Activities in Children's Educational Context. In: 10th International Conference on Computer Supported Education, 2018, Funchal, Madeira, Portugal. CSDU, 2018. v. 2. p. 309-316.

PEIXOTO, BRUNO; AVILA, SANDRA; DIAS, ZANONI; ROCHA, ANDERSON. Breaking Down Violence: A Deep-Learning Strategy to Model and Classify Violence in Videos. In: International Workshop on Digital Forensics (WSDF), 2018, Hamburgo. International Conference on Availability, Reliability and Security (ARES). New York: ACM Press, 2018.

PEREZ, FÁBIO; VASCONCELOS, CRISTINA N.; AVILA, SANDRA; VALLE, EDUARDO. Data Augmentation for Skin Lesion Analysis. In: ISIC Skin Image Analysis Workshop and Challenge, 2018, Granada. International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2018.

POMARI, THALES; RUPPERT, GUILHERME C.S.; REZENDE, EDMAR; ROCHA, ANDERSON; CARVALHO, TIAGO. Image Splicing Detection Through Illumination Inconsistencies and Deep Learning. In: IEEE International Conference on Image Processing (ICIP), 2018, Athens. Proc. of the IEEE International Conference on Image Processing (ICIP), 2018. p. 1-5.

SANTANA, T.; TORRES, R.; AND DOS SANTOS, J. "Superpixel Context Description based on Visual Words Co-Occurrence Matrix," 2018 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2018 pp. 6199-6202.

WERNECK, R.; DOURADO, I.; FADEL, S.; TABBONE, S.; AND TORRES, R. "Graph-Based Early-Fusion for Flood Detection," 2018 IEEE International Conference on Image Processing (ICIP), 2018, pp. 1048-1052.

WERNECK, R.; RAVEAUX, R.; TABBONE, S.; AND TORRES, R. "Learning Cost Functions for Graph Matching," Structural, Syntactic, and Statistical Pattern Recognition - Joint IAPR International Workshop (S+SSPR), 2018, pp. 345-354

ZHDANOV, P.; KHAN, A.; RAMÍREZ RIVERA, A.; KHATTAK, A. Improving Human Action Recognition through Hierarchical Neural Network Classifiers. In: International Joint Conference on Neural Networks (IJCNN), 2018, Rio. International Joint Conference on Neural Networks (IJCNN), 2018.

2017

PINTO, ALLAN; MOREIRA, D. H. ; BHARATI, Aparna ; BROGAN, Joel ; BOWYER, Kevin ; FLYNN, Patrick ; SCHEIRER, Walter J. ; ROCHA, ANDERSON . Provenance Filtering for Multimedia Phylogeny. In: IEEE Intl. Conference on Image Processing (ICIP), 2017, Beijing. Proc. of the IEEE Intl. Conference on Image Processing (ICIP), 2017. p. 1-5.

BROGAN, JOEL ; BESTAGINI, PAOLO ; BHARATI, APARNA ; PINTO, ALLAN DA SILVA ; MOREIRA, DANIEL ; BOWYER, KEVIN ; FLYNN, PATRICK ; ROCHA, ANDERSON ; SCHEIRER, WALTER J. Spotting the Difference: Context Retrieval and Analysis for Improved Forgery Detection and Localization. In: IEEE Intl. Conference on Image Processing (ICIP), 2017, Beijing. Proc. of the IEEE Intl. Conference on Image Processing (ICIP), 2017. p. 1-5.

BHARATI, APARNA ; MOREIRA, DANIEL ; PINTO, ALLAN DA SILVA ; BROGAN, JOEL; BOWYER, KEVIN ; FLYNN, PATRICK ; SCHEIRER, WALTER J.; ROCHA, ANDERSON . U-Phylogeny: Undirected Provenance Graph Construction in the Wild. In: IEEE Intl. Conference on Image Processing (ICIP), 2017, Beijing. Proc. of the IEEE Intl. Conference on Image Processing (ICIP), 2017. v. 12. p. 1-5.

BOULKENAFET, Z. KUMULAINEN, J. AKHTAR, Z. BENLAMOUDI, A. BEKHOUCHE, S. OUAFI, A. DORNAIKA, F. TALEB-AHMED, A. QIN, L. PENG, F. ZHANG, L. LONG, M. BHILARE, S. KANHANGAD, V. COSTA-PAZO, A. VAZQUEZ-FERNANDEZ, E. PEREZ-CABO, D. MOREIRA-PEREZ, J. J. GONZALEZ-JIMENEZ, D. MOHAMMADI, A. BHATTACHARJEE, S. MARCEL, S.

VOLKOVA, S. TANG, Y. ABE, N. , LI, L. FENG, X. XIA, Z. JIANG, X. LIU, S. SHAO, R. YUEN, P. C. ALMEIDA, Waldir Rodrigues de ANDALO, Fernanda A. PADILHA, Rafael BERTOCCO, Gabriel DIAS, William WAINER, J. TORRES, R. DA S. ROCHA, ANDERSON DE ASSIS ANGELONI, M. FOLEGO, GUILHERME GODOY, A. HADID, A. ; A Competition on Generalized Software-based Face Presentation Attack Detection in Mobile Scenarios. In: International Joint Conference on Biometrics (IJCB), 2017, Denver. Proc. of the International Joint Conference on Biometrics (IJCB), 2017. p. 1-8.

MOREIRA, Daniel ; GOLDENSTEIN, Siome ; ROCHA, ANDERSON . Sensitive-Video Analysis. In: Congresso da Sociedade Brasileira de Computação (CTD/CSBC), 2017, São Paulo. Concurso de Teses e Dissertações (CTD/SBC), 2017. p. 1-6.

MOREIRA, D. H. ; AVILA, SANDRA ; PEREZ, MAURICIO ; MORAES, Daniel ; TESTONI, Vanessa ; VALLE, Eduardo ; Siome Goldenstein ; ROCHA, ANDERSON . Temporal Robust Features for Violence Detection. In: IEEE Intl. Winter Conference on Applications of Computer Vision (WACV), 2017, Santa Rosa. IEEE Intl. Winter Conference on Applications of Computer Vision (WACV), 2017. p. 1-9.

MENEGOLA, AFONSO ; FORNACIALI, MICHEL ; PIRES, Ramon ; BITTENCOURT, FLAVIA VASQUES ; AVILA, SANDRA ; VALLE, Eduardo . Knowledge transfer for melanoma screening with deep learning. In: 2017 IEEE 14th International Symposium on Biomedical Imaging (ISBI 2017), 2017, Melbourne. 2017 IEEE 14th International Symposium on Biomedical Imaging (ISBI 2017), 2017. p. 297-300.

LEONARDO, MATHEUS MACEDO ; AVILA, SANDRA ; ZUCCHI, ROBERTO A. ; FARIA, FABIO A. . Mid-level Image Representation for Fruit Fly Identification (Diptera: Tephritidae). In: 2017 IEEE 13th International Conference on eScience (eScience), 2017, Auckland. 2017 IEEE 13th International Conference on e-Science (e-Science), 2017. p. 202.

DOBRENKII, ANTON ; KULEEV, RAMIL ; KHAN, ADIL ; Rivera, Adin Ramirez ; KHATTAK, ASAD MASOOD . Large residual multiple view 3D CNN for false positive reduction in pulmonary nodule detection. In: 2017 IEEE Conference on Computational Intelligence in Bioinformatics and Computational

Biology (CIBCB), 2017, Manchester. 2017 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB), 2017. p. 1.

GUSAREV, MAXIM ; KULEEV, RAMIL ; KHAN, ADIL ; Rivera, Adin Ramirez ; KHATTAK, ASAD MASOOD . Deep learning models for bone suppression in chest radiographs. In: 2017 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB), 2017, Manchester. 2017 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB), 2017. p. 1.

KIM, JAEMYUN ; RIVERA, ADIN RAMIREZ ; KIM, BYEONGWOO ; ROY, KAUSHIK ; CHAE, OKSAM . Background modeling using adaptive properties of hybrid features. In: 2017 14th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), 2017, Lecce. 2017 14th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), 2017. p. 1.

FIGUEROA, JHOSIMAR ARIAS ; RIVERA, ADIN RAMIREZ . Learning to Cluster with Auxiliary Tasks: A Semi-Supervised Approach. In: 2017 30th SIBGRAPI Conference on Graphics, Patterns and Images (SIBGRAPI), 2017, Niterói. 2017 30th SIBGRAPI Conference on Graphics, Patterns and Images (SIBGRAPI), 2017. p. 141.

FIGUEROA, JHOSIMAR ARIAS ; Ramírez Rivera, A. . Is Simple Better?: Revisiting Simple Generative Models for Unsupervised Clustering. Bayesian Deep Learning (NIPS), 2017 (Workshop).

C. UCHOA MAIA RODRIGUES, DANIELE ; A. MOURA, FELIPE ; CUNHA, SERGIO AUGUSTO ; DA S. TORRES, RICARDO . Visualizing Temporal Graphs using Visual Rhythms - A Case Study in Soccer Match Analysis. In: International Conference on Information Visualization Theory and Applications, 2017, Porto. Proceedings of the 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications, 2017. v. 3. p. 96-107.

Albarracín, J. ; Ferreira, E. ; Santos, J. A. ; TORRES, R. da S. . Fusion of Genetic-Programming-Based Indices in Hyperspectral Image Classification

Tasks. In: IEEE International Geoscience and Remote Sensing Symposium, 2017, Fort Worth, TX, EUA. IGARSS, 2017. p. 554-557.

Nogueira, K. ; Santos, J. A. ; Cancian, L. ; Borges, B. D. ; Silva, T. S. F. ; Morellato, L. P. C. ; TORRES, R. da S. . Semantic Segmentation of Vegetation Images Acquired by Unmanned Aerial Vehicles Using an Ensemble of Convnets. In: IEEE International Geoscience and Remote Sensing Symposium, 2017, Fort Worth, TX, EUA. IGARSS, 2017. p. 3787-3790.

MARIANO, GREICE CRISTINA ; SOARES, NATALIA COSTA ; MORELLATO, LEONOR PATRICIA CERDEIRA ; TORRES, Ricardo da Silva . Change Frequency Heatmaps for Temporal Multivariate Phenological Data Analysis. In: 2017 IEEE 13th International Conference on eScience (eScience), 2017, Auckland. p. 305-314.

Andrade, F. ; Aranha, C. ; TORRES, R. da S. . Ecology-aware Evolutionary Computation Systems. In: The Japanese Society for Evolutionary Computation Symposium, 2017, Mori Town, Kaije-gun, Hokkaido. JPNSEC, 2017.

MENEGOLA, AFONSO ; FORNACIALI, MICHEL ; TAVARES, JULIA ; LI, Lin T. ; AVILA, SANDRA ; VALLE, EDUARDO . RECOD Titans at ISIC Challenge 2017. In: ISIC 2017 Challenge: Skin Lesion Analysis Towards Melanoma Detection, 2017, Melbourne. ISIC 2017 Challenge, 2017.

2016

ALBARRACÍN, J. F. H. ; SANTOS, J. A. dos ; TORRES, R. da S. Learning to Combine Spectral Indices with Genetic Programming. In: 29th Conference on Graphics, Patterns and Images (SIBGRAPI), 2016.

CARVALHO, M. ; CORD, M. ; AVILA, S. E. F. ; THOME, N. ; VALLE, E. Deep neural networks under stress. In: IEEE International Conference on Image Processing (ICIP), p. 4443-4447, 2016.

COSTA, F. O. ; LAMERI, S. ; BESTAGINI, P. ; DIAS, Z. ; TUBARO, S. ; ROCHA, A. Hash-Based Frame Selection for Video Phylogeny. In: IEEE Workshop on Information Forensics and Security (WIFS), 2016.

FOLEGO, G. ; ANGELONI, M. A. ; STUCHI, J. ; GODOY, A. ; ROCHA, A. Cross-Domain Face Verification: Matching ID Document and Self-Portrait Photographs. In: Workshop de Visão Computacional (WVC), p. 311-316, 2016.

FOLEGO, G. ; GOMES, O. ; ROCHA, A. From impressionism to expressionism: Automatically identifying van Gogh's paintings. In: IEEE International Conference on Image Processing (ICIP), p. 141-145, 2016.

MARIANO, G. ; STAGGEMEIER, V. G. ; MORELLATO, L. P. C. ; TORRES, R. da S. A Visual Rhythm Approach to Visualize Multidimensional Cyclical Data: A Case Study on Phenological Data Analysis. In: International Conference on Digital Libraries (ICDL), 2016.

NOGUEIRA, K. ; SANTOS, J. A. dos ; FORNAZARI, T. ; SILVA, T. S. F. ; MORELLATO, L. P. C. ; TORRES, R. da S. Towards vegetation species discrimination by using data-driven descriptors. In: 9th IAPR Workshop on Pattern Recognition in Remote Sensing, 2016.

TABACOF, P. ; VALLE, E. Exploring the space of adversarial images. In: International Joint Conference on Neural Networks (IJCNN), p. 426-433, 2016.

VITORINO, P. ; AVILA, S. ; ROCHA, A. A Two-tier Image Representation Approach to Detecting Child Pornography. In: Workshop de Visão Computacional (WVC), p. 129-134, 2016.

FERREIRA, C. D. ; CALUMBY, R. T. ; ARAUJO, I. B. A. C. ; DOURADO, I. C. ; MUÑOZ, J. A. V. ; PENATTI, O. A. B. ; LI, L. T. ; ALMEIDA, J. ; TORRES, R. da S. Recod @ MediaEval 2016: Diverse Social Images Retrieval. In: MediaEval, 2016.

MUÑOZ, J. A. V. ; LI, L. T. ; DOURADO, I. C. ; NOGUEIRA, K. ; FADEL, S. G. ; PENATTI, O. A. B. ; ALMEIDA, J. ; PEREIRA, L. A. M. ; CALUMBY, R. T. ; SANTOS, J. A. dos ; TORRES, R. da S. RECOD @ Placing Task of MediaEval 2016: A Ranking Fusion Approach for Geographic-Location Prediction of Multimedia Objects. In: MediaEval, 2016.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Rank Diffusion for Context-Based Image Retrieval. In: ACM on International Conference on Multimedia Retrieval (ICMR), p. 321-325, 2016.

2015

COSTA, F. O.; LAMERI, S.; BESTAGINI, P. ; DIAS, Z.; ROCHA, A.; TAGLIASACCHI, M.; TUBARO, S. Phylogeny reconstruction for misaligned and compressed video sequences. In: IEEE International Conference on Image Processing (ICIP), p. 301-305, 2015.

HADJIISKI, L. M. ; TOURASSI, G. D. ; FONSECA, P. ; MENDOZA, J. ; WAINER, J. ; FERRER, J. ; PINTO, J. ; GUERRERO, J. ; CASTANEDA, B. Automatic breast density classification using a convolutional neural network architecture search procedure. In: SPIE Medical Imaging, v. 9414, p. 941428-941428-8, 2015.

MOREIRA, D. ; AVILA, S. E. F. ; PEREZ, M. ; MORAES, D. ; TESTONI, V. ; VALLE, E. ; GOLDENSTEIN, S. ; ROCHA, A. RECOD at MediaEval 2015: Affective Impact of Movies Task. MediaEval, 2015.

NICASTRO, F. ; PEREIRA, R. ; ALBERTON, B. ; MORELLATO, L. P. C. ; BARANAUSKAS, M. C. C. ; TORRES, R. da S. Guidelines for Evaluating Mobile Applications: A Semiotic-Informed Approach. In: 17th International Conference on Enterprise information Systems (ICEIS), Lecture Notes in Business Information Processing, Revised Selected Papers, v. 241, p. 529-554, 2015.

OKADA, C. Y. ; PEDRONETTE, D. C. G. ; TORRES, R. da S. Unsupervised Distance Learning by Rank Correlation Measures for Image Retrieval. In: 5th ACM on International Conference on Multimedia Retrieval, p. 331-338, 2015.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Unsupervised Effectiveness Estimation for Image Retrieval Using Reciprocal Rank Information. In: 28th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 321-328, 2015.

PINTO-CACERES, S. M ; ALMEIDA, J. ; BARANAUSKAS, M. C. C. ; TORRES, R. da S. FISIR: A Flexible Framework for Interactive Search in Image Retrieval Systems. In: 21st International Conference on MultiMedia Modeling (MMM), Lecture Notes in Computer Science, v. 8935. p. 335-347, 2015.

PISANI, F. ; PEDRONETTE, D. C. G. ; TORRES, R. da S. ; Borin, E. Improving the Performance of the Contextual Spaces Re-Ranking Algorithm on Heterogeneous Systems. In: XVI Simpósio em Sistemas Computacionais de Alto Desempenho (WSCAD), 2015.

BRITTO-NETO, L. S. ; MAIKE, V. R. M. L. ; KOCH, F. L. ; BARANAUSKAS, M. C. C. ; ROCHA, A. ; GOLDENSTEIN, S. A Wearable Face Recognition System Built into a Smartwatch and the Blind and Low Vision Users. In: 17th International Conference on Enterprise Information Systems (ICEIS). Lecture Notes in Business Information Processing, Revised Selected Papers, v. 241, p. 515-528, 2015.

SEIBEL, H.; GOLDENSTEIN, S.; ROCHA, A. Fast and Effective Geometric K-Nearest Neighbors Multi-frame Super-Resolution. In: 28th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 103-110, 2015.

VALEM, L. P. ; PEDRONETTE, D. C. G. ; TORRES, R. da S. ; BORIN, E. ; ALMEIDA, J. Effective, Efficient, and Scalable Unsupervised Distance Learning in Image Retrieval Tasks. In: 5th ACM on International Conference on Multimedia Retrieval (ICMR), p. 51-58, 2015.

MUÑOZ, J. A. V. ; TORRES, R. da S. ; GONÇALVES, M. A. A Soft Computing Approach for Learning to Aggregate Rankings. In: 24th ACM International on Conference on Information and Knowledge Management (CIKM), p. 83-92, 2015.

WAKU, G. M. ; BOLLIS, E. R. ; RUBIRA, C. M. F. ; TORRES, R. da S. A Robust Software Product Line Architecture for Data Collection in Android Platform. In: IX Brazilian Symposium on Components, Architectures and Reuse Software (SBCARS), p. 31-39, 2015.

CALUMBY, R. T. ; ARAUJO, I. B. A. C. ; SANTANA, V. P. ; MUÑOZ, J. A. V. ; PENATTI, O. A. B. ; LI, L. T. ; ALMEIDA, J. ; CHIACHIA, G. ; GONÇALVES, M. A. ;

TORRES, R. da S. Recod @ MediaEval 2015: Diverse Social Images Retrieval. In: MediaEval, 2015.

LI, L. T. ; MUÑOZ, J. A. V. ; ALMEIDA, J. ; CALUMBY, R. T. ; PENATTI, O. A. B. ; DOURADO, I. C. ; NOGUEIRA, K. ; MENDES, P. R. ; PEREIRA, L. A. M. ; PEDRONETTE, D. C. G. ; SANTOS, J. A. dos ; GONÇALVES, M. A. ; TORRES, R. da S. RECOD @ Placing Task of MediaEval 2015. In: MediaEval, 2015.

MAIKE, V. R. M. L. ; BRITTO-NETO, L. S. ; GOLDENSTEIN, S. ; BARANAUSKAS, M. C. C. Heuristics for NUI Revisited and Put into Practice. In: 17th International Conference on Human-Computer Interaction (HCI), Lecture Notes in Computer Science, v. 9170, p. 317-328, 2015.

2014

CALUMBY, R.T. ; TORRES, R. da S. ; GONCALVES, M.A. Diversity-driven learning for multimodal image retrieval with relevance feedback. In: IEEE International Conference on Image Processing (ICIP), p. 2197-2201, 2014.

CAVALCANTE, T. ; ROCHA, A. ; CARVALHO, A. Large-Scale Micro-Blog Authorship Attribution: Beyond Simple Feature Engineering. In: 19th Iberoamerican Congress on Pattern Recognition (CIARP). Lecture Notes in Computer Science, v. 8827, p. 399-407, 2014.

CONTI, J. C. ; FARIA, F. A. ; ALMEIDA, J. ; ALBERTON, B. ; MORELLATO, L. P. C. ; CAMOLESI, L. ; TORRES, R. da S. Evaluation of Time Series Distance Functions in the Task of Detecting Remote Phenology Patterns. In: 22nd International Conference on Pattern Recognition (ICPR), p. 3126-3131, 2014.

SILVA, E. S. ; TEIXEIRA, T. S. F. X. ; TEODORO, G. ; VALLE, E. Large-Scale Distributed Locality-Sensitive Hashing for General Metric Data. In: 7th International Conference on Similarity Search and Applications (SISAP), v. 8821, p. 82-93, 2014.

FARIA, F. ; ROCHA, A. ; TORRES, R. da S. A Framework for Pattern Classifier Selection and Fusion. In: European Conference on Machine Learning and

Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), 2014.

FERREIRA, A. ; ROCHA, A. A Multiscale and Multi-Perturbation Blind Forensic Technique For Median Detecting. In: 19th Iberoamerican Congress on Pattern Recognition (CIARP). Lecture Notes in Computer Science, v. 8827, p. 302-310, 2014.

FORNACIALI, M. ; AVILA, S. E. F. ; CARVALHO, M. ; VALLE, E. Statistical Learning Approach for Robust Melanoma Screening. In: 27th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 319-326, 2014.

GRIJALVA, F.; MARTINI, L.; GOLDENSTEIN, S.; FLORENCIO, D. Anthropometric-Based Customization of Head-related Transfer Functions using Isomap in the Horizontal Plane. In: IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), p. 4473-4477, 2014.

LAMERI, S. ; BESTAGINI, P. ; MELLONI, A. ; MILANI, S. ; ROCHA, A. ; TAGLIASACCHI, M. ; TUBARO, S. Who is my Parent? Reconstructing Video Sequences from Partially Matching Shots. In: IEEE International Conference on Image Processing (ICIP), p. 5342-5346, 2014.

MELLONI, A.; BESTAGINI, P. ; MILANI, S. ; TAGLIASACCHI, M. ; ROCHA, A. ; TUBARO, S. Image Phylogeny through dissimilarity metrics fusion. In: 5th European Workshop on Visual Information Processing (EUVIP), p. 1-6, 2014.

OLIVEIRA, A. A. ; FERRARA, P. ; ROSA, A. ; PIVA, A. ; BARNI, M. ; GOLDENSTEIN, S. ; DIAS, Z. ; ROCHA, A. Multiple Parenting Identification in Image Phylogeny. In: IEEE International Conference on Image Processing (ICIP), p. 5347-5351, 2014.

PEDRONETTE, D. C. G. ; CALUMBY, R. T. ; TORRES, R. da S. Semi-Supervised Learning for Relevance Feedback on Image Retrieval Tasks. In: 27th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 243-250, 2014.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Unsupervised Manifold Learning by Correlation Graph and Strongly Connected Components for Image

Retrieval. In: IEEE International Conference on Image Processing (ICIP), p. 1892-1896, 2014.

PEDRONETTE, D. C. G. ; PENATTI, O. A. B. ; CALUMBY, R. T. ; TORRES, R. da S. Unsupervised Distance Learning By Reciprocal kNN Distance for Image Retrieval. In: International Conference on Multimedia Retrieval (ICMR), p. 345, 2014.

PIRES, R. ; AVILA, S. ; JELINEK, H. F. ; WAINER, J. ; VALLE, E. ; ROCHA, A. Automatic Diabetic Retinopathy Detection using BossaNova Representation. In: 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), p. 146-149, 2014.

SANTOS, L. C. B. dos; ALMEIDA, J. ; SANTOS, J. A. dos ; GUIMARAES, S. J. F. ; ARAUJO, A. de A. ; ALBERTON, B. ; MORELLATO, L. P. C. ; TORRES, R. da S. Phenological Event Detection by Visual Rhythms Dissimilarity Analysis. In: IEEE 10th International Conference on e-Science (eScience), p. 263-270, 2014.

SILVA, F. B. ; TABBONE, S. ; TORRES, R. da S. BoG: a New Approach for Graph Matching. In: 22nd International Conference on Pattern Recognition (ICPR), p. 82-87, 2014.

TOTTI, L. C. ; COSTA, F. A. ; AVILA, S. E. F. ; VALLE, E. ; MEIRA, W. ; ALMEIDA, V. A. F. The impact of visual attributes on online image diffusion. In: ACM conference on Web science (WebSci), p. 42-51, 2014.

AVILA, S. E. F. ; MOREIRA, D. ; PEREZ, M. ; MORAES, D. ; COTA, I. ; TESTONI, V. ; VALLE, E. ; GOLDENSTEIN, S. ; ROCHA, A. RECOD at MediaEval 2014: Violent Scenes Detection Task. In: MediaEval, 2014.

CALUMBY, R. T. ; SANTANA, V. P. ; CORDEIRO, F. S. ; PENATTI, O. A. B. ; LI, L. T. ; CHIACHIA, G. ; TORRES, R. da S. Recod @ MediaEval 2014: Diverse Social Images Retrieval. In: MediaEval, 2014.

CARVALHO, T. ; PEDRINI, H. ; ROCHA, A. Illumination Inconsistency Sleuthing for Exposing Fauxtography and Uncovering Composition

Telltales in Digital Images. In: Workshop of Thesis and Dissertations - Conference on Graphics, Patterns, and Images (WTD-SIBGRAPI), 2014.

FARIA, F. A. ; ROCHA, A. ; TORRES, R. da S. A Framework for Pattern Classifier Selection and Fusion. In: Workshop of Thesis and Dissertations - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (WTD-ECML), 2014.

KOZIEVITCH, N. P. ; HARA, C. S. ; NANDE, J. ; TORRES, R. da S. Exploring Data Fusion under the Image Retrieval Domain. In: 16th International Conference on Enterprise Information Systems (ICEIS), p. 171-178, 2014.

LI, L. T. ; PENATTI, O. A. B. ; ALMEIDA, J. ; CHIACHIA, G. ; CALUMBY, R. T. ; MENDES, P. R. ; PEDRONETTE, D. C. G. ; TORRES, R. da S. Multimedia Geocoding: The RECOD 2014 Approach. In: MediaEval, 2014.

MORAES, D. ; WAINER, J. ; ROCHA, A. Asymmetric Error Control on Support Vector Machines. In: Workshop of Thesis and Dissertations - Conference on Graphics, Patterns, and Images (WTD-SIBGRAPI), 2014.

PINTO, A. S. ; PEDRINI, H. ; ROCHA, A. Video-Based Face Spoofing Detection through Visual Rhythm Analysis. In: Workshop of Thesis and Dissertations - Conference on Graphics, Patterns, and Images (WTD-SIBGRAPI), 2014.

PINTO, A. S. ; ROCHA, A. A Countermeasure Method for Video-Based Face Spoofing Attacks. In: Workshop of Thesis and Dissertations - Brazilian Computer Society Association (WTD-SBC), 2014.

PIRES, R. ; ROCHA, A. Diabetic Retinopathy Image Quality Assessment, Detection, Screening and Referral. In: Workshop of Thesis and Dissertations - Brazilian Computer Society Association (WTD-SBC), 2014.

CARVALHO, T. ; PEDRINI, H. ; ROCHA, A. Illumination Inconsistency Sleuthing for Exposing Fauxtography and Uncovering Composition Telltales in Digital Images. In: Workshop de Teses e Dissertações - Simpósio Brasileiro de Segurança da Informação e de Sistemas Computacionais (WTD-SBSeg), 2014.

PIRES, R.; WAINER, J. ; ROCHA, A. Diabetic Retinopathy Image Quality Assessment, Detection, Screening and Referral. In: Workshop of Thesis and Dissertations - Conference on Graphics, Patterns, and Images (WTD-SIBGRAPI), 2014.

ARAUJO, G. M. ; RIBEIRO, F. M. L. ; SILVA, E. A. B. da ; GOLDENSTEIN, S. Fast eye localization without a face model using inner product detectors. In: IEEE International Conference on Image Processing (ICIP), p. 1366-1370, 2014.

MAIKE, V. R. M. L. ; BRITTO-NETO, L. S. ; BARANAUSKAS, M. C. C. ; GOLDENSTEIN, S. Seeing through the Kinect: A Survey on Heuristics for Building Natural User Interfaces Environments. In: 8th International Conference on Universal Access in Human-Computer Interaction (UAHCI), Lecture Notes in Computer Science, v. 8513, p. 407-418, 2014.

SABOIA, P. ; GOLDENSTEIN, S. Assessing Cross-Cut Shredded Document Assembly. In: 19th Iberoamerican Congress on Pattern Recognition (CIARP), Lecture Notes in Computer Science, vol. 8827, p. 272-279, 2014.

FONSECA, P. ; WAINER, J. A Linear Time Implementation of k-Means for Multilevel Thresholding of Grayscale Images. In: 19th Iberoamerican Congress on Pattern Recognition (CIARP), Lecture Notes in Computer Science, v. 8827, p. 120-126, 2014.

2013

ALMEIDA, J. ; SANTOS, J. A. dos ; ALBERTON, B. ; MORELLATO, L. P. C. ; TORRES, R. da S. Plant Species Identification with Phenological Visual Rhythms. In: 9th IEEE International Conference on e-Science, p. 148-154, 2013.

ALMEIDA, J. ; SANTOS, J. A. dos ; ALBERTON, B. ; MORELLATO, L. P. C. ; TORRES, R. da S. Visual Rhythm-based Time Series Analysis for Phenology Studies. In: IEEE International Conference on Image Processing (ICIP), p. 4412-4416, 2013.

CHINGOVSKA, I. ; YANG, J. ; LEI, Z. ; YI, D. ; LI, S. Z. ; KAHM, O. ; GLASER, C. ; DAMER, N. ; KUIJPER, A. ; NOUAK, A. ; KOMULAINEN, J. ; PEREIRA, T. F. ; GUPTA, S. ; KHANDELWAL, S. ; BANSAL, S. ; RAI, A. ; KRISHNA, T. ; GOYAL, D. ; WARIS, M.-A. ; ZHANG, H. ; AHMAD, I. ; KIRANYAZ, S. ; GABBOUJ, M. ; TRONCI, R. ; PILI, M. ; SIRENA, N. ; ROLI, F. ; GALBALLY, J. ; FIERREZ, J. ; PINTO, A. S. ; PEDRINI, H. ; SCHWARTZ, W. R. ; ROCHA, A. ; ANJOS, A. ; MARCEL, S. The 2nd competition on counter measures to 2D face spoofing attacks. In: International Conference on Biometrics (ICB), p. 1-6, 2013.

TORRES, R. da S. ; HASEGAWA, M. ; TABBONE, S. ; ALMEIDA, J. ; SANTOS, J. A. dos ; ALBERTON, B. ; MORELLATO, L. P. C. Shape-based time series analysis for remote phenology studies. In: IEEE International Geoscience and Remote Sensing Symposium (IGARSS), p. 3598-3601, 2013.

SANTOS, J. A. dos ; PENATTI, O. A. B. ; TORRES, R. da S. ; GOSSELIN, P.-H. ; PHILLIP-FOLIGUET, S. ; FALCÃO, A. X. Remote Sensing Image Representation based on Hierarchical Histogram Propagation. In: IEEE International Geoscience and Remote Sensing Symposium (IGARSS), p. 2982-2985, 2013.

SILVA, E. S. ; VALLE, E. K-medoids LSH: a new locality sensitive hashing in general metric space. In: XXVIII Simpósio Brasileiro de Banco de Dados (SBBD), Short papers, p. 22:1-22:6, 2013.

ESCALANTE, D. A. C. ; TAUBIN, G. ; NONATO, L. G. ; GOLDENSTEIN, S. Using Unsupervised Learning for Graph Construction in Semi-supervised Learning with Graphs. In: XXVI Conference on Graphics, Patterns and Images (SIBGRAPI), p. 24-30, 2013.

FARIA, F. A. ; SANTOS, J. A. dos ; SARKAR, S. ; ROCHA, A. ; TORRES, R. da S. Classifier Selection Based on the Correlation of Diversity Measures: When Fewer Is More. In: XXVI Conference on Graphics, Patterns and Images (SIBGRAPI). p. 16-23, 2013.

GODOI, T. A. ; TORRES, R. da S. ; CARVALHO, A. ; GONÇALVES, M. A. ; FERREIRA, A. A. ; FAN, W. ; FOX, E. A. A relevance feedback approach for the author name disambiguation problem. In: 13th ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL), p. 209-218, 2013.

GUNTHER, M. ; COSTA-PAZO, A. ; DING, C. ; BOUTELLAA, E. ; CHIACHIA, G. ; ZHANG, H. ; ANGELONI, M. A. ; STRUC, V. ; KHOURY, E. ; VAZQUEZ-FERNANDEZ, E. ; TAO, D. ; BENGHERABI, M. ; COX, D. D. ; KIRANYAZ, S. ; PEREIRA, T. F. ; ZGANEC-GROS, J. ; ARGONES-RUA, E. ; PINTO, N. ; GABBOUJ, M. ; SIMÕES, F. O. ; DOBRISEK, S. ; GONZALEZ-JIMENEZ, D. ; ROCHA, A. ; NETO, M. U. ; PAVESIC, N. ; FALCÃO, A. X. ; VIOLATO, R. ; MARCEL, S. The 2013 face recognition evaluation in mobile environment. In: International Conference on Biometrics (ICB), p. 1-7, 2013.

JELINEK, H. ; PIRES, R. ; PADILHA, R. ; GOLDENSTEIN, S. ; WAINER, J. ; ROCHA, A. Quality Control and Multi-lesion Detection in Automated Retinopathy Classification using a Visual Words Dictionary. In: International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), 2013, p. 5857-5860, 2013.

MURARO, E. ; KOZIEVITCH, N. P. ; ALMEIDA, J. ; SANTOS, J. A. dos ; ALBERTON, B. ; MORELATTO, L. P. C. A Framework for Semantic Annotation of Phenology Image Components. International Conference on Digital Libraries (ICDL), p. 243-256, 2013.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Unsupervised measures for estimating the effectiveness of image retrieval systems. In: XXVI Conference on Graphics, Patterns, and Images (SIBGRAPI), p. 341-348, 2013.

PEDRONETTE, D. C. G. ; TORRES, R. da S. ; BORIN, E. ; BRETERNITZ, M. Image Re-Ranking Acceleration on GPUs. In: 25th International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD), p. 176-183, 2013.

PEREIRA, L. A. M. ; PAPA, J. P. ; ALMEIDA, J. ; TORRES, R. da S. ; AMORIM, W. P. A Multiple Labeling-Based Optimum-Path Forest for Video Content Classification. In: XXVI Conference on Graphics, Patterns and Images (SIBGRAPI), p. 334-340, 2013.

SENDIN, I. ; GOLDENSTEIN, S. Protein Structure Determination with Imprecise Distances. In: Workshop on Distance Geometry and Applications, p. 1-4, 2013.

SILVA, F. B. ; GOLDENSTEIN, S. ; TABBONE, S. ; TORRES, R. da S. Image Classification based on Bag of Visual Graphs. In: IEEE International Conference on Image Processing (ICIP), p. 4312-4316, 2013.

SILVA, F. B. ; GOLDENSTEIN, S. ; TABBONE, S. ; TORRES, R. da S. Image Classification based on Bag of Visual Graphs. In: IEEE International Conference on Image Processing (ICIP), p. 4312-4316, 2013.

TOFFOLI, T. O. ; KOZIEVITCH, N. P. ; GONÇALVES, M. A. ; TORRES, R. da S. A formal approach for the specification of digital complex objects. In: 19th Brazilian symposium on Multimedia and the Web (WebMedia), p. 125-132, 2013.

LI, L. T. ; ALMEIDA, J. ; PENATTI, O. A. B. ; CALUMBY, R. T. ; PEDRONETTE, D. C. G. ; GONÇALVES, M. A. ; TORRES, R. da S. Multimodal Image Geocoding: The 2013 RECOD's Approach. In: MediaEval, 2013.

LI, LIN T. ; PENATTI, O. A. B. ; FOX, E. A. ; TORRES, R. da S. Domain-specific image geocoding: a case study on Virginia tech building photos. In: 13th ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL), p. 363-366, 2013.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Exploiting Contextual Information for Image Re-Ranking and Rank Aggregation in Image Retrieval Tasks. In: XXVI Thesis and Dissertation Competition - XXXIII Brazilian Computer Society Congress (CTD-CSBC), 2013.

PENATTI, O. A. B. ; TORRES, R. da S. ; VALLE, E. Image and Video Representations based on Visual Dictionaries. In: Workshop of Thesis and Dissertations - Conference on Graphics, Patterns, and Images (WTD-SIBGRAPI), 2013.

PISANI, F. ; PEDRONETTE, D. C. G. ; TORRES, R. da S. ; BORNÍ, E. Contextual Spaces Algorithm Acceleration on APUs. In: IV Escola Regional de Alto Desempenho de São Paulo (ERAD-SP), 2013.

SANTOS, J. A. dos ; FALCÃO, A. X. ; TORRES, R. da S. ; GOSSELIN, P.-H. ; PHILLIP-FOLIGUET, S. Semi-automatic Classification of Remote Sensing

Images. In: Workshop of Thesis and Dissertations - Conference on Graphics, Patterns, and Images (WTD-SIBGRAPI), 2013.

ANDALÓ, F. A. ; GOLDENSTEIN, S. Computer vision methods applicable to forensic science. Workshop of Theses and Dissertations - XXVI Conference on Graphics, Patterns and Images (WTD-SIBGRAPI), 2013.

SANTOS, J. A. dos ; TORRES, R. da S. Remote Sensing Image Segmentation and Representation through Multiscale Analysis. In: Tutorial of 26th Conference on Graphics, Patterns and Images (SIBGRAPI-T), p. 23-30, 2013.

PINHEIRO, P. G. ; WAINER, J. A Mixed Map Representation Approach for Mobile Robot Localization Planning. In: 10th International Conference on Informatics in Control, Automation and Robotics (ICINCO), p. 401-408, 2013

2012

AFONSO, L. C. S. ; PAPA, J. P. ; PAPA, L. P. ; MARANA, A. N. ; ROCHA, A. Automatic visual dictionary generation through Optimum-Path Forest clustering. In: 19th IEEE International Conference on Image Processing (ICIP), p. 1897-1900, 2012.

ALMEIDA, J. ; SANTOS, J. A. dos ; ALBERTON, B. ; TORRES, R. da S. ; MORELLATO, L. P. C. Remote phenology: Applying machine learning to detect phenological patterns in a cerrado savanna. In: IEEE 8th International Conference on E-Science (e-Science), p. 1-8, 2012.

ANDALÓ, F. A. ; TAUBIN, G. ; GOLDENSTEIN, S. Solving Image Puzzles with a Simple Quadratic Programming Formulation. In: 25th Conference on Graphics, Patterns and Image (SIBGRAPI), p. 63-70, 2012.

ANDRADE, F. S. P. ; ALMEIDA, J. ; PEDRINI, H. ; TORRES, R. da S. Fusion of Local and Global Descriptors for Content-Based Image and Video Retrieval. In: 17th Iberoamerican Congress on Pattern Recognition (CIARP), Lecture Notes in Computer Science, v. 7441. p. 845-853, 2012.

LUZ, A. ; VALLE, E. ; ARAÚJO, A. de A. A Context-Aware Description for Content Filtering on Video Sharing Social Networks. In: IEEE International Conference on Multimedia and Expo (ICME), p. 729-734, 2012.

CARVALHO, T. ; SILVA, E. ; COSTA, F. ; FERREIRA, A.; ROCHA, A. Além do óbvio: a análise forense de imagens e a investigação do conteúdo implícito e explícito de fotografias digitais. In: Workshop de Forense Computacional - Simpósio Brasileiro de Segurança da Informação e de Sistemas Computacionais (SBSeg), 2012.

CHIACHIA, G. ; PINTO, N. ; SCHWARTZ, W. R. ; ROCHA, A. ; FALCÃO, A. X. ; COX, D. D. Person-Specific Subspace Analysis for Unconstrained Familiar Face Identification. In: British Machine Vision Conference (BMVC), p. 1-12, 2012.

COSTA, F. O. ; ECKMANN, M. ; SCHEIRER, W. J. ; ROCHA, A. Open Set Source Camera Attribution. In: 25th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 71-78, 2012.

VALLE, E.; AVILA, S. ; SOUZA, F. ; COELHO, M. ; ARAÚJO, A. Content-based filtering for video sharing social networks. In: Workshop de Forense Computacional - XII Simpósio em Segurança da Informação e de Sistemas Computacionais (WFC-SBSeg), p. 625-638, 2012.

FABIAN, J. ; PIRES, R. ; ROCHA, A. Searching for People through Textual and Visual Attributes. In: 25th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 276-282, 2012.

FARIA, F. A. ; SANTOS, J. A. dos ; TORRES, R. da S. ; ROCHA, A. ; FALCAO, A. X. Automatic fusion of region-based classifiers for coffee crop recognition. In: IEEE International Geoscience and Remote Sensing Symposium (IGARSS), p. 2221-2224, 2012.

FARIA, F. A. ; SANTOS, J. A. dos ; ROCHA, A. ; TORRES, R. da S. Automatic Classifier Fusion for Produce Recognition. In: 25th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 252-259, 2012.

JELINEK, H. F. ; PIRES, R. ; PADILHA, R. ; GOLDENSTEIN, S. ; WAINER, J. ; BOSSOMAIER, T. ; ROCHA, A. Data fusion for multi-lesion Diabetic Retinopathy detection. In: 25th IEEE International Symposium on Computer-Based Medical Systems (CBMS), p. 1-4, 2012.

BUENO, L. M. ; VALLE, E. ; TORRES, R. da S. Bayesian Approach for Near-duplicate Image Detection. In: ACM International Conference on Multimedia Retrieval (ICMR), 2012.

MANSANO, A. ; MATSOUKA, J. A. ; AFONSO, L. C. S. ; PAPA, J. P. ; FARIA, F. A. ; TORRES, R. da S. Improving Image Classification through Descriptor Combination. In: 25th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 324-329, 2012.

MARIANO, G. ; ALMEIDA, J. ; TORRES, R. da S. ; ALBERTON, B. ; MORELLATO, L. P. C. Desenvolvimento de um Modelo Conceitual de um Banco de Dados para o Projeto e-phenology. In: VI e-Science Workshop - XXXII Congresso da Sociedade Brasileira de Computação (CSBC), 2012.

MORAIS, E. ; GOLDENSTEIN, S. ; FERREIRA, A. ; ROCHA, A. Automatic Tracking of Indoor Soccer Players Using Videos from Multiple Cameras. In: 25th Conference on Graphics, Patterns and Images (SIBGRAPI), pp. 174-181, 2012.

MORAIS, E. ; GOLDENSTEIN, S. ; ROCHA, A. Automatic Localization of Indoor Soccer Players from Multiple Cameras. In: International Conference on Computer Vision Theory and Applications (VISAPP), p. 205-212, 2012.

NAKAMURA, R. ; PAPA, J. P. ; FONSECA, L. M. ; SANTOS, J. A. dos ; TORRES, R. da S. Hyperspectral band selection through Optimum-Path Forest and evolutionary-based algorithms. In: IEEE International Geoscience and Remote Sensing Symposium (IGARSS), p. 3066-3069, 2012.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Combining Re-Ranking and Rank Aggregation Methods. In: 17th Iberoamerican Congress on Pattern Recognition (CIARP), Lecture Notes in Computer Science, v. 7441. p. 170-178., 2012.

PEDRONETTE, D. C. G. ; TORRES, R. da S. ; BORIN, E. ; BRETERNITZ, M. Efficient Image Re-Ranking Computation on GPUs. In: 10th IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA), p. 95-102, 2012.

PENATTI, O. A. B. ; LI, L. T. ; ALMEIDA, J. ; TORRES, R. da S. A Visual Approach for Video Geocoding using Bag-of-Scenes. In: ACM International Conference on Multimedia Retrieval (ICMR), 2012.

PINTO, A. S. ; PEDRINI, H. ; SCHWARTZ, W. R. ; ROCHA, A. Video-Based Face Spoofing Detection through Visual Rhythm Analysis. In: 25th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 221-228, 2012.

PIRES, R. ; JELINEK, H. F. ; WAINER, J. ; ROCHA, A. Retinal Image Quality Analysis for Automatic Diabetic Retinopathy Detection. In: 25th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 229-236, 2012.

RIBEIRO, F. ; ARAUJO, G. ; SILVA, E. ; OLIVEIRA, J. ; GOLDENSTEIN, S. Detecção de Pontos Fiduciais sobre a Face em Tempo Real. In: XXX Simpósio Brasileiro de Telecomunicações (SBTrT), p. 1-5, 2012.

AVILA, S. E. F. ; THOME, N. ; CORD, M. ; VALLE, E. ; ARAÚJO, A. de A. BossaNova at ImageCLEF 2012 Flickr Photo Annotation Task. In: CLEF 2012 Evaluation Labs and Workshop, 2012.

SANTOS, J. A. dos ; FARIA, F. A. ; TORRES, R. da S. ; ROCHA, A ; GOSSELIN, P.-H. ; PHILLIP-FOLIGUET, S. ; FALCÃO, A. X. Descriptor Correlation Analysis for Remote Sensing Image Multi-Scale Classification. In: 21st International Conference on Pattern Recognition (ICPR), p. 3078-3081, 2012.

SANTOS, J. A. dos ; PENATTI, O. A. B. ; TORRES, R. da S. ; GOSSELIN, P.-H. ; PHILLIP-FOLIGUET, S. ; FALCAO, A. X. Improving Texture Description in Remote Sensing Image Multi-Scale Classification Tasks By Using Visual Words. In: 21st International Conference on Pattern Recognition (ICPR), p. 3090-3093, 2012.

SENDIN, I. ; GOLDENSTEIN, S. ; LAVOR, C. Protein Structure Reconstruction with Data Uncertainties. In: International Symposium on Uncertainty Quantification and Stochastic Modeling (Uncertainties), p. 1-10, 2012.

VIDAL, M. L. A. ; CAVALCANTI, J. M. B. ; MOURA, E. S. ; SILVA, A. S. ; TORRES, R. da S. Sorted Dominant Local Color for Searching Large and Heterogeneous Image Databases. In: 21st International Conference on Pattern Recognition (ICPR), p. 1960-1963, 2012.

ALMEIDA, J. ; LEITE, N. J. ; TORRES, R. da S. Recuperação de Vídeos Comprimidos por Conteúdo. In: XXV Concurso de Teses e Dissertações - XXXII Congresso da Sociedade Brasileira de Computação (CTD-CSBC), 2012.

ALMEIDA, J. ; LEITE, N. J. ; TORRES, R. da S. Content-Based Retrieval of Compressed Videos. In: Workshop of Theses and Dissertations - Conference on Graphics, Patterns and Images (WTD-SIBGRAPI), 2012.

ALMEIDA, J. ; SALLES, T. ; MARTINS, E. F. ; PENATTI, O. A. B. ; TORRES, R. da S. ; GONÇALVES, M. A. ; ALMEIDA, J. M. UNICAMP-UFG at MediaEval 2012: Genre Tagging Task. In: MediaEval, 2012.

LI, L. T. ; ALMEIDA, J. ; PEDRONETTE, D. C. G. ; PENATTI, O. A. B. ; TORRES, R. da S. A Multimodal Approach for Video Geocoding. In: MediaEval, 2012.

LI, L. T. ; PEDRONETTE, D. C. G. ; ALMEIDA, J. ; PENATTI, O. A. B. ; CALUMBY, R. T. ; TORRES, R. da S. Multimedia Multimodal Geocoding. In: International Conference on Advances in Geographic Information Systems (SIGSPATIAL), p. 474-477, 2012.

PEDRONETTE, D. C. G. ; TORRES, R da S. Exploiting Contextual Information in Image Retrieval Tasks. In: Workshop of Theses and Dissertations - Conference on Graphics, Patterns and Images (WTD-SIBGRAPI), 2012.

PEDRONETTE, D. C. G. ; TORRES, R. da S. ; BORIN, E. ; BRETERNITZ, M. Efficient Computation of Image Re-Ranking using GPUs. In: III Escola Regional de Alto Desempenho de São Paulo (ERAD-SP), 2012.

PASSOS, A. ; RAI, P. ; WAINER, J. ; DAUME III, H. Flexible Modeling of Latent Task Structures in Multitask Learning. 29th International Conference on Machine Learning (ICML), 2012.

2011

ALMEIDA, J. ; LEITE, N. J. ; TORRES, R. da S. Comparison of Video Sequences with Histograms of Motion Patterns. In: 18th IEEE International Conference on Image Processing (ICIP), p. 3673-3676, 2011.

ALMEIDA, J. ; LEITE, N. J. ; TORRES, R. da S. Rapid Cut Detection on Compressed Video. In: 16th Iberoamerican Congress on Pattern Recognition (CIARP), Lecture Notes in Computer Science, v. 7042, p. 71-78, 2011.

ANDALÓ, F. A. ; CALAKLI, F. ; TAUBIN, G. ; GOLDENSTEIN, S. Accurate 3D Footwear Impression Recovery From Photographs. In: International Conference on Imaging for Crime Detection and Prevention (ICDP), p. 1-6, 2011.

LUZ, A. ; VALLE, E. ; ARAÚJO, A. Semantic Concepts for Content Filtering on Video Sharing Social Networks. In: 10th IADIS International Conference on WWW/Internet (ICWI), p. 293-300, 2011.

ARAUJO, G. ; SABINO, W. ; SILVA, E. ; GOLDENSTEIN, S. Detecção de Landmarks Faciais Usando SVM. In: XXIX Simpósio Brasileiro de Telecomunicações (SBrT), p. 1-6, 2011.

CARVALHO, T. ; ROCHA, A. ; WAINER, J. ; GOLDENSTEIN, S. Computer Vision and Machine Learning techniques for hard exudates detection eye-fundus images. In: Workshop of Theses and Dissertations - 23rd Conference on Graphics, Patterns and Images (WTD-SIBGRAPI), 2011.

CHAKKA, M. M. ; ANJOS, A. ; MARCEL, S. ; TRONCI, R. ; MUNTONI, D. ; FADDA, G. ; PILI, M. ; SIRENA, N. ; MURGIA, G. ; RISTORI, M. ; ROLI, F. ; YAN, J. ; YI, D. ; LEI, Z. ; ZHANG, Z. ; LI, S. Z. ; SCHWARTZ, W. R. ; ROCHA, A. ; PEDRINI, H. ; LORENZO-NAVARRO, J. ; CASTRILLON-SANTANA, M. ; MAATTA, J. ; HADID, A. ; PIETIKAINEN, M. Competition on Counter Measures to 2-D Facial Spoofing Attacks. In: IEEE International Joint Conference on Biometrics (IJCB), p. 1-6, 2011.

CHIACHIA, G. ; FALCÃO, A. X. ; ROCHA, A. Person-Specific Face Representation for Recognition. In: IEEE International Joint Conference on Biometrics (IJCB), p.1-8, 2011.

COELHO, M. M. ; VALLE, E. ; SANTOS JUNIOR, C. ; ARAÚJO, A. de A. Subspace Clustering for Information Retrieval in Urban Scene Databases. In: 24th SIBGRAPI Conference on Graphics, Patterns and Images (SIBGRAPI), p.173-180, 2011.

DIAS, Z. ; ROCHA, A. ; GOLDENSTEIN, S. Video Phylogeny: Recovering Near-Duplicate Video Relationships. In: IEEE International Workshop on Information Forensics and Security (WIFS), p.1-6, 2011.

FARIA, F. ; CALUMBY, R. T. ; VELOSO A. ; ROCHA, A. ; TORRES, R. da S. Uso de Técnicas de Aprendizagem para Classificação e Recuperação de Imagens. In: Workshop of Theses and Dissertations - 24th Conference on Graphics, Patterns and Images (WTD-SIBGRAPI), 2011.

SOUZA, F. D. M. de ; VALLE, E. ; CHAVÉZ, G. C. ; ARAÚJO, A. de A. Color-Aware Local Spatiotemporal Features for Action Recognition. In: 16th Iberoamerican Congress on Pattern Recognition (CIARP), Lecture Notes in Computer Science, v. 7042, p. 248-255, 2011.

TEODORO, G. ; VALLE, E. ; MARIANO, N. ; TORRES, R. da S. ; MEIRA, W. Adaptive Parallel Approximate Similarity Search for Responsive Multimedia Retrieval. In: 20th ACM Conference on Information and Knowledge Management (CIKM), p. 495-504, 2011.

JELINEK, H. ; ROCHA, A. ; CARVALHO, T. ; GOLDENSTEIN, S. ; WAINER, J. Machine Learning and Pattern Classification in Identification of Indigenous Retinal Pathology. In: 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), pp. 5951-5954, 2011.

KOZIEVITCH, N. P. ; ALMEIDA, J. ; TORRES, R. da S. ; SANTANCHÈ, A. ; LEITE, N. J. Reusing a Compound-Based Infrastructure for Searching Video Stories. In: IEEE International Conference on Information Reuse and Integration (IRI), p. 222-227, 2011.

LOPES, A. P. B. ; SANTOS, E. ; VALLE, E. ; ALMEIDA, J. M. ; ARAÚJO, A. de A. Transfer Learning for Human Action Recognition. In: 24th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 352-359, 2011.

MURTHY, U. ; LI, L. T. ; HALLERM, E. ; FOX, E. A. ; PEREZ-QUINONES, M. ; DELCAMBRE, L. M. L. ; TORRES, R. da S. Use of Subimages in Fish Species Identification: A Qualitative Study. In: Joint International Conference on Digital Libraries (JCDL), p. 185-194, 2011.

PENATTI, O. A. B. ; VALLE, E. ; TORRES, R. da S. Encoding Spatial Arrangement of Visual Words. In: 16th Iberoamerican Congress on Pattern Recognition (CIARP), Lecture Notes in Computer Science, v. 7042, p. 240-247, 2011.

PAPA, J. P. ; ROCHA, A. Image Categorization Through Optimum Path Forest and Visual Words. In: 18th IEEE International Conference on Image Processing (ICIP), p. 3525-3528., 2011.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Exploiting Contextual Spaces for Image Re-Ranking and Rank Aggregation. In: 1st International Conference on Multimedia Retrieval (ICMR), p. 13:1-13:8, 2011.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Exploiting Contextual Information for Rank Aggregation. In: 18th IEEE International Conference on Image Processing (ICIP), p. 97-100, 2011.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Image Re-Ranking and Rank Aggregation based on Similarity of Ranked Lists. In: 14th International Conference on Computer Analysis of Images and Patterns (CAIP), Lecture Notes in Computer Science, v. 6854, p. 369-376, 2011.

PEIXOTO, B. ; MICHELASSI, C. ; ROCHA, A. Face liveness detection under bad illumination conditions. In: 18th IEEE International Conference on Image Processing (ICIP), p. 3557-3560, 2011.

SABOIA, P. ; GOLDENSTEIN, S. Crowd Simulation: Improving Pedestrians' Dynamics by the Application of Lattice-Gas Concepts to the Social Force

Model. In: 24th Conference on Graphics, Patterns and Images (SIBGRAPI), p. 41-47, 2011.

SABOIA, P. ; CARVALHO, T. J. ; ROCHA, A. Eye Specular Highlights Telltales for Digital Forensics: A Machine Learning Approach. In: 18th IEEE International Conference on Image Processing (ICIP), p. 1937-1940, 2011.

AVILA, S. E. F. ; THOME, N. ; CORD, M. ; VALLE, E. ; ARAÚJO, A. de A. BOSSA: Extended BoW Formalism for Image Classification. In: 18th IEEE International Conference on Image Processing (ICIP), p. 2909-2912, 2011.

SANTOS, J. A. dos ; SILVA, A. T. ; TORRES, R. da S. ; FALCÃO, A. X. ; MAGALHÃES, L. P. ; LAMPARELLI, R. A. C. Interactive Classification of Remote Sensing Images by using Optimum-Path Forest and Genetic Programming. In: 14th International Conference on Computer Analysis of Images and Patterns (CAIP), Lecture Notes in Computer Science, v. 6855, p. 300-307, 2011.

SCHWARTZ, W. R. ; ROCHA, A. ; PEDRINI, H. Face Spoofing Detection through Partial Least Squares and Low-Level Descriptors. In: IEEE International Joint Conference on Biometrics (IJCB), p. 1-8, 2011.

ALMEIDA, J. ; PINTO-CÁCERES, S. M. ; TORRES, R. da S. ; LEITE, N. J. Intuitive Video Browsing Along Hierarchical Trees. In: II Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), 2011.

COSTA, F. ; ROCHA, A. Atribuição de fonte em imagens provenientes de câmeras digitais. In: II Simpósio de Processamento de Sinais da Unicamp (SPS-UNICAMP), 2011.

FARIA, F. A. ; CALUMBY, R. T. ; TORRES, R. da S. RECOD at ImageCLEF 2011: Medical Modality Classification using Genetic Programming. In: CLEF 2011 Labs and Workshop, 2011.

GODOI, J. ; QUILES, M. ; ROCHA, A. Classificação de Padrões de Manchas de Sangue a Partir de Fotografias Digitais. In: Simpósio de Processamento de Sinais da Unicamp (SPS-UNICAMP), 2011.

LI, L. T. ; ALMEIDA, J. ; TORRES, R. da S. RECOD Working Notes for Placing Task MediaEval 2011. In: MediaEval, 2011.

PINHEIRO, G. ; ROCHA, A. Atribuição de fonte impressora. In: II Simpósio de Processamento de Sinais da Unicamp (SPS-UNICAMP), 2011.

PIRES, R. ; ROCHA, A. Combinação de Classificadores para um Sistema Automático de Triagem de Retinopatia Diabética. In: II Simpósio de Processamento de Sinais da Unicamp (SPS-UNICAMP), 2011.

YANG, S. ; KAVANAUGH, A. L. ; KOZIEVITCH, N. P. ; LI, L. T. ; SRINIVASAN, V. ; SHEETZ, S. D. ; WHALEN, T. ; SHOEMAKER, D. J. ; TORRES, R. da S. ; FOX, E. A. CTRnet DL for Disaster Information Services. In: Joint International Conference on Digital Libraries (JCDL), p. 437-438, 2011.

2010

ALMEIDA, J. ; MINETTO, R. ; ALMEIDA, T. ; TORRES, R. da S. ; LEITE, N. J. Estimation of Camera Parameters in Videos Sequence with a Large Amount of Scene Motion. In: 17th International Conference on Systems, Signals, and Image Processing (IWSSIP), p. 348-351, 2010.

ALMEIDA, J. ; TORRES, R. da S. ; LEITE, N. J. Rapid Video Summarization on Compressed Video. In: 12th IEEE International Symposium on Multimedia, (ISM), p. 113-120, 2010.

ANDALÓ, F. A. ; TAUBIN, G. ; GOLDENSTEIN, S. Vanishing Point Detection by Segment Clustering on the Projective Space. In: Workshop on Reconstruction and Modeling of Large-Scale 3D Virtual Environments - European Conference on Computer Vision (ECCV), Trends and Topics in Computer Science, Lecture Notes in Computer Science, Revised Selected Papers, v. 6554, p. 324-337, 2010.

ANDALÓ, F. A. ; TAUBIN, G. ; GOLDENSTEIN, S. Detecting Vanishing Points by Segment Clustering on the Projective Plane for Single-View Photogrammetry. In: IEEE International Workshop on Information Forensics and Security (WIFS), p. 1-6, 2010.

ARAÚJO, G. ; SABINO, W. ; SILVA, E. ; GOLDENSTEIN, S. Facial Landmarks Detection Based on Correlation Filters. In: International Telecommunications Symposium, 2010.

DIAS, Z. ; ROCHA, A. ; GOLDENSTEIN, S. First Steps Toward Image Phylogeny. In: IEEE International Workshop on Information Forensics and Security (WIFS), p. 1-6, 2010.

SANTOS, E. ; LOPES, A. ; VALLE, E. ; ARAÚJO, A. Vocabulários Visuais para Recuperação de Informação Multimídia. In: 16º Simpósio Brasileiro em Sistemas Multimídia e Web (WebMedia 2010), v. 2. p. 21-24, 2010.

FARIA, F. ; PAPA, J. P. ; FALCÃO, A. X. ; TORRES, R. da S. Multimodal Pattern Recognition Through Particle Swarm Optimization. In: 17th International Conference on Systems, Signals, and Image Processing (IWSSIP), p. 134-137., 2010.

AKUNE, F. ; VALLE, E. ; TORRES, R. da S. MONORAIL: A Disk-Friendly Index for Huge Descriptor Databases. In: 20th International Conference on Pattern Recognition (ICPR), p. 4145-4148, 2010.

SOUZA, F. D. M. de ; CHÁVEZ, G. C. ; VALLE, E. ; ARAÚJO, A. de A. Violence Detection in Video Using Spatio-Temporal Features. In: 23rd Conference on Graphics, Patterns and Images (SIBGRAPI), p. 224-230, 2010.

FARIA, F. A. ; VELOSO, A. ; ALMEIDA, H. M. ; VALLE, E. ; TORRES, R. da S. ; GONÇALVES, M. A. ; MEIRA, W. Learning to Rank for Content-Based Image Retrieval. In: 11th ACM SIGMM International Conference on Multimedia Information Retrieval (MIR), p. 285-294, 2010.

GARCIA, V. B. ; TORRES, R. da S. A Shape Descriptor based on Scale-Invariant Multiscale Fractal Dimension. In: 5th International Conference on Computer Vision Theory and Applications (VISAPP), p. 185-190, 2010.

GIL, F. ; KOZIEVITCH, N. P. ; TORRES, R. da S. A Geographic Annotation Service for Biodiversity Systems. In: XI Brazilian Symposium on Geoinformatics (GeoInfo), p. 33-44, 2010.

KOZIEVITCH, N. ; TORRES, R. da S. ; PARK, S. ; FOX, E. ; SHORT, N. ; ABBOTT, L. ; MISRA, S. ; HSIAO, M. Rethinking Fingerprint Evidence Through Integration of Very Large Digital Libraries. In: 3rd Workshop on Very Large Digital Libraries - 14th European Conference on Research and Advanced Technologies on Digital Libraries (ECDL), 2010.

MACÁRIO, C. G. N. ; SANTOS, J. A. dos ; MEDEIROS, C. B. ; TORRES, R. da S. Annotating Data to Support Decision-Making: a Case Study. In: 6th Workshop on Geographic Information Retrieval (GIR), v. 20, 2010.

MURTHY, U. ; KOZIEVITCH, N. ; FOX, E. ; TORRES, R. da S. ; HALLERM, E. SUPERIDR: A Tablet PC Tool for Image Description and Retrieval. In: Workshop on the Impact of Pen-Based Technology on Education (WIPTe), 2010.

PINHEIRO, P. G. ; WAINER, J. Planning for Multi-robot Localization. In: 20th Brazilian Symposium on Artificial Intelligence (SBIA), Lecture Notes in Computer Science, v. 6404. p. 183-192, 2010.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Shape Retrieval Using Contour Features and Distance Optimization. In: 5th International Conference on Computer Vision Theory and Applications (VISAPP), p. 197-202, 2010.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Distances Correlation for Re-Ranking in Content-Based Image Retrieval. In: 23rd Conference on Graphics, Patterns and Images (SIBGRAPI), p. 1-8, 2010.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Exploiting Contextual Information for Image Re-ranking. In: 15th Iberoamerican Congress on Pattern Recognition (CIARP), Lecture Notes in Computer Science, v. 6419, p. 541-548, 2010.

QUILES, M. G. ; ZHAO, L. ; BREVE, F. A. ; ROCHA, A. Label Propagation Through Neuronal Synchrony. In: IEEE International Joint Conference on Neural Networks (IJCNN), p. 1-8, 2010.

ROCHA, A. ; GOLDENSTEIN, S. Classifiers and Machine Learning Techniques for Image Processing and Computer Vision. In: Workshop of Theses and Dissertations - 23rd Conference on Graphics, Patterns and Images (WTD-SIBGRAPI), 2010.

ROCHA, A. ; PAPA, J. P. ; MEIRA, L. A. A. How Far You Can Get Using Machine Learning Black-Boxes. In: 23rd Conference on Graphics, Patterns and Images (SIBGRAPI), p. 193-200, 2010.

SILVA JUNIOR, W. S. ; ARAUJO, G. M. ; SILVA, E. A. B. da ; GOLDENSTEIN, S. Facial Fiducial Points Detection Using Discriminative Filtering on Principal Components. In: IEEE International Conference on Image Processing (ICIP), p. 2681-2684, 2010.

SANTOS, J. A. dos ; FARIA, F. A. ; CALUMBY, R. T. ; TORRES, R. da S. ; LAMPARELLI, R. A. C. A Genetic Programming Approach for Coffee Crop Recognition. In: IEEE International Geoscience and Remote Sensing Symposium (IGARSS), p. 3418-3421, 2010.

SANTOS, J. A. dos ; PENATTI, O. A. B. ; TORRES, R. da S. Evaluating the Potential of Texture and Color Descriptors for Remote Sensing Image Retrieval and Classification. In: 5th International Conference on Computer Vision Theory and Applications (VISAPP), p. 203-208, 2010.

SCHEIRER, W. J. ; ROCHA, A. ; MICHEALS, R. J. ; BOULT, T. E. Robust Fusion: Extreme Value Theory for Recognition Score Normalization. In: 11th European Conference on Computer Vision (ECCV). Lecture Notes in Computer Science, v. 6313, p. 481-495, 2010.

ALMEIDA, J. ; LEITE, N. J. ; TORRES, R. da S. Recuperação de Vídeos Digitais: Métodos, Propostas e Desafios. In: I Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 75-77, 2010.

ALMEIDA, J. ; TORRES, R. da S. ; Leite, N. J. BP-tree: An Efficient Index for Similarity Search in High-Dimensional Metric Spaces. In: 19th ACM Conference on Information and Knowledge Management (CIKM), p. 1365-1368, 2010.

ANDRADE, F. ; TORRES, R. da S. ; PEDRINI, H. Combinação de Descritores Locais e Globais para Reconhecimento de Objetos em Vídeo. In: I Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 84-86, 2010.

ARMIGLIATTO, G. M. ; VALLE, E. ; TORRES, R. da S. Anotação Automática de Imagens Usando Dicionários Visuais e Regras de Associação. In: I Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 29-31, 2010.

BUENO, L. M. ; VALLE, E. ; TORRES, R. da S. Estudo Comparativo de Descritores Locais de Imagens Aplicado a Grandes Bases de Dados. In: I Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 47-48, 2010.

CALUMBY, R. T. ; TORRES, R. da S. Realimentação de Relevância para Recuperação Visual e Textual de Imagens. In: I Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 32-34, 2010.

FARIA, F. A. ; ROCHA, A. ; TORRES, R. da S. Classificação de Imagens usando Programação Genética. In: I Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 26-28, 2010.

KOZIEVITCH, N. P. ; TORRES, R. da S. Describing OAI-ORE from the 5S Framework Perspective. In: 12th International Conference on Asia-Pacific Digital Libraries (ICADL), v. 6102, p. 260-261, 2010.

KOZIEVITCH, N. P. ; TORRES, R. da S. ; ANDRADE, F. S. P. ; MURTHY, U. ; FOX, E. A. ; HALLERM, E. A Teaching Tool for Parasitology: Enhancing Learning with Annotation and Image Retrieval. In: 14th European Conference on Research and Advanced Technology for Digital Libraries (ECDL), Lecture Notes in Computer Science, v. 6273, p. 466-469, 2010.

MORAIS, E. ; ROCHA, A. ; GOLDENSTEIN, S. Rastreamento de jogadores de futsal usando Visão Computacional. In: I Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 78-81, 2010.

MURARO, E. ; TORRES, R. da S. Busca Baseada em Ontologias de Objetos Digitais Armazenados em Repositórios na Web. In: IX Workshop de Teses e

Dissertações em Bancos de Dados - XXV Simpósio Brasileiro de Bancos de Dados (WTDBD-SBBD), 2010.

PEDRONETTE, D. C. G. ; TORRES, R. da S. Exploiting Shape Matching and Re-Ranking Strategies for Content-Based Image Retrieval Tasks. In: I Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 44-46, 2010.

PENATTI, O. A. B. ; TORRES, R. da S. Eva: An Evaluation Tool for Comparing Descriptors in Content-based Image Retrieval Tasks. In: 11th ACM SIGMM International Conference on Multimedia Information Retrieval (MIR), p. 413-416, 2010.

PENATTI, O. A. B. ; TORRES, R. da S. User-oriented Evaluation of Color Descriptors for Web Image Retrieval. In: 14th European Conference on Research and Advanced Technology for Digital Libraries (ECDL), Lecture Notes in Computer Science, v. 6273, p. 486-489, 2010.

PENATTI, O. A. B. ; TORRES, R. da S. Explorando Dicionários Visuais em Buscas de Imagens na Web. In: I Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 35-37, 2010.

PINTO-CÁCERES, S. M ; TORRES, R. da S. Visualização para Sistemas de Recuperação de Imagens por Conteúdo. In: I Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 49-51, 2010.

SANTOS, J. A. dos ; TORRES, R. da S. ; FALCAO, A. X. Classificação Semi-automática de Regiões em Imagens de Sensoriamento Remoto Utilizando Realimentação de Relevância. In: I Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 41-43, 2010.

SILVA, E. ; ROCHA, A. Processando Sinais e Evidências: Desafios em Computação Forense Digital. In: Simpósio de Processamento de Sinais da UNICAMP (SPS-UNICAMP), p. 87-90, 2010.

2009

ALMEIDA, J. ; MINETTO, R. ; ALMEIDA, T. A. ; TORRES, R. da S. ; LEITE, N. J. Robust Estimation of Camera Motion using Optical Flow Models. In: 5th International Symposium on Visual Computing, Lecture Notes in Computer Science, v. 5875. p. 435-446, 2009.

BEZERRA, F. ; WAINER, J ; AALST, W. Anomaly Detection Using Process Mining. In: 10th International Workshop BPMDS 2009, Lecture Notes in Business Information Processing, v. 29. p. 149-161, 2009.

PICARD, D. ; VALLE, E. ; CORD, M. Study of Sift Descriptors for Image Matching Based Localization in Urban Street View Context. In: City Models, Roads and Traffic ISPRS Workshop, p. 1-6, 2009.

VALLE, E. ; PICARD, D. ; CORD, M. Geometric Consistency Checking for Local-Descriptor Based Document Retrieval. In: ACM Symposium on Document Engineering (DOCENG), p. 135-138, 2009.

VALLE, E. ; CORD, M. Advanced Techniques in CBIR: Local Descriptors, Visual Dictionaries and Bags of Features. In: Tutorials of the XXII Brazilian Symposium of Computer Graphics and Image Processing (SIBGRAPI-T), p. 72-78., 2009.

BERTHOLDO, F. ; VALLE, E. ; ARAÚJO, A. de A. Layout-Aware Limiarization for Readability Enhancement of Degraded Historical Documents. In: ACM Symposium on Document Engineering (DOCENG), p. 131-134, 2009.

GOLDENSTEIN, S. ; ROCHA, A. High-profile forensic analysis of images. In: International Conference on Imaging for Crime Detection and Prevention (ICDP), p. 18-23, 2009.

MONTOYA-ZEGARRA, J. A. ; PAPA, J. P. ; LEITE, N. J. ; TORRES, R. da S. ; FALCÃO, A. X. Novel Approaches for Exclusive and Continuous Fingerprint Classification. In: 3rd Pacific-Rim Symposium on Image and Video Technology (PSIVT), Lecture Notes in Computer Science, v. 5414. p. 386-397, 2009.

MURTHY, U. ; FOX, E. A. ; CHEN, Y. ; HALLERM, E. ; TORRES, R. da S. ; RAMOS, E. J. ; FALCÃO, T. R. C. Superimposed Image Description and Retrieval for Fish Species Identification. In: 13th European Conference on Digital Libraries (ECDL), Lecture Notes in Computer Science, v. 5714, p. 285-296, 2009.

ROCHA, A. ; GOLDENSTEIN, S. Multi-class from Binary - Divide to Conquer. In: 4th International Conference on Computer Vision Theory and Applications (VISAPP), p. 323-330, 2009.

ROMAN, N ; FERREIRA, C. ; MEIRA, L. ; REZENDE, R. ; DIGIAMPIETRI, L. ; JAMBEIRO, J ; KONDO, A. ; BRANDÃO, B. ; CONSTANTINO, E ; RIBEIRO, H ; WAINER, J. ; GOLDENSTEIN, S. Attribute-Value Specification in Customs Fraud Detection: A Human-Aided Approach. In: International Conference on Digital Government Research, p. 264-271, 2009.

SANTOS, J. ; LAMPARELLI, R. ; TORRES, R. Using Relevance Feedback for Classifying Remote Sensing Images. In: Brazilian Remote Sensing Symposium (SBSR), p. 7909-7916, 2009.

SANTOS, K. C. L. ; ALMEIDA, H. M. ; GONÇALVES, M. A. ; TORRES, R. da S. Recuperação de Imagens da Web Utilizando Múltiplas Evidências Textuais e Programação Genética. In: XXIV Simpósio Brasileiro de Banco de Dados (SBBD), p. 91-105, 2009.

SCHEIRER, W. ; ROCHA, A. ; HEFLIN, B. ; BOULT, T. Difficult Detection: A Comparison of Two Different Approaches to Eye Detection for Unconstrained Environments. In: IEEE 3rd International Conference on Biometrics: Theory, Applications, and Systems, p. 176-183, 2009.

MURTHY, U. ; FOX, E. A. ; CHEN, Y. ; HALLERM, E. ; TORRES, R. da S. ; RAMOS, E. J. ; FALCAO, T. R. C. Species identification: fish images with CBIR and annotations. In: Joint International Conference on Digital libraries (JCDL), p. 435-436, 2009.

3. Book Chapters

2024

Sakabe, Eduardo Yuji ; da Silva, Anderson Anjos ; Coletta, Luiz Fernando ; da Silva Simões, Alexandre ; COLOMBINI, Esther Luna ; COSTA, PAULA DORNHOFFER PARO ; Gudwin, Ricardo Ribeiro . An Episode Tracker for Cognitive Architectures. Studies in Computational Intelligence. 1ed.: Springer Nature Switzerland, 2024, v. 1130, p. 750-758.

2023

DOS Santos Viriato, Paula Jeniffer ; Roque de Souza, Rafael ; VILLAS, LEANDRO APARECIDO ; DOS REIS, JULIO CESAR . Revealing Chatbot Humanization Impact Factors. Lecture Notes in Computer Science. 1ed.: Springer Nature Switzerland, 2023, v. , p. 294-313.

DOS Santos Viriato, Paula Jeniffer ; Roque de Souza, Rafael ; VILLAS, LEANDRO APARECIDO ; DOS REIS, JULIO CESAR . A Framework for Humanization Evaluation in Chatbots. Lecture Notes in Computer Science. 1ed.: Springer Nature Switzerland, 2023, v. , p. 314-333.

2022

ARMELIN, H. A. ; Reis, Marcelo S. ; SILVA, M. S. . Controle do Ciclo Celular. In: Hoff, Paulo Marcelo Gehm; Chammas, Roger; Bonadio, Renata Rodrigues da Cunha Colombo. (Org.). Tratado de Oncologia. 2ed.: Atheneu, 2022, v. 1, p. 265-282.

MARQUES, L. B. M. M. ; UEDA, L. H. ; SIMOES, F. O. ; ULIANI NETO, M. ; RUNSTEIN, F. O. ; Nagle, E. J. ; BO, B. D. ; COSTA, P.D.P. . Diffusion-Based Approach to Style Modeling in Expressive TTS. Intelligent Systems. BRACIS 2022. Lecture Notes in Computer Science. 1ed.: Springer, Cham, 2022.

2021

DE Santana Correia, Alana ; Cleveston, Iury ; dos Santos, Viviane Bonadia ; Avila, Sandra ; Colombini, Esther Luna . An Attentional Model for Earthquake Prediction Using Seismic Data. Communications in Computer and Information Science. 1ed.: Springer International Publishing, 2021, v. , p. 53-64.

PADILHA, Rafael ; ANDALÓ, FERNANDA A. ; Pereira, Luis A. M. ; ROCHA, A. . Unraveling the Notre-Dame Cathedral Fire in Space and Time: An X-coherence Approach. In: Anthony C. Ijeh, Kevin Curran. (Org.). Crime Science and Digital Forensics: A Holistic View. 1ed.: , 2021, v. , p. 3-20.

2020

PEREIRA, L. A.; PINTO, A.; ANDALÓ, F. A.; FERREIRA, A. M.; LAVI, B.; SORIANO-VARGAS, A.; CIRNE, M.; ROCHA, A. (2020). The Rise of Data-Driven Models in Presentation Attack Detection. Deep Biometrics, 289-311.

PIRES, RAMON ; FERREIRA, ALEXANDRE ; AVILA, SANDRA ; WAINER, JACQUES ; ROCHA, ANDERSON. An accountable saliency-oriented data-driven approach to diabetic retinopathy detection. Diabetes and Fundus OCT. 1ed.: Elsevier, 2020, v. , p. 223-243.

2018

PINTO, A.; PEDRINI, HELIO; KRUMDICK, M.; BECKER, B.; CZAJKA, A.; BOWYER, Kevin; ROCHA, ANDERSON. Counteracting Presentation Attacks in Face, Fingerprint, and Iris Recognition. Chapter in Book Deep Learning in Biometrics.. In: Mayank Vatsa, Richa Singh, Angshul Majumdar. (Org.). Deep Learning in Biometrics. 1ed.: CRC Press, 2018, v. , p. 1-316.

2015

NETO, LAURINDO B.; MAIKE, VANESSA; KOCH, FERNANDO; BARANAUSKAS, C.; ROCHA, ANDERSON; GOLDENSTEIN, SIOME . A Wearable Face Recognition System Built into a Smartwatch and the Blind and Low Vision Users. In: Cordeiro, José and Hammoudi, Slimane and Maciaszek, Leszek and Camp, Olivier and Teniente, Ernest. (Org.). Lecture Notes in Business Information Processing, Intl. Conference on Enterprise Information Systems (ICEIS). 1ed.: © Springer International Publishing Switzerland, 2015, v. 241, p. 1-14.

2014

FOX, E. A. (Org.) ; TORRES, R. da S. (Org.). Digital Library Technologies: Complex Objects, Annotation, Ontologies, Classification, Extraction, and Security. Synthesis Lectures on Information Concepts, Retrieval, and Services. Morgan & Claypool Publishers, 2014.

KOZIEVITCH, N. P. ; TORRES, R. da S. Complex Objects. In: E. Fox; R. da S. Torres. (Orgs.). Digital Library Technologies: Complex Objects, Annotation, Ontologies, Classification, Extraction, and Security. Morgan & Claypool Publishers, p. 1-28, 2014.

LI, L. T. ; TORRES, R. da S. Geospatial Information. In: Edward Fox; Jonathan P. Leidig. (Orgs.). Digital Libraries Applications: CBIR, Education, Social Networks, eScience/Simulation, and GIS. Synthesis Lectures on Information Concepts, Retrieval, and Services. Morgan & Claypool Publishers, p. 85-220, 2014.

MURTHY, U. ; L. DELCAMBRE ; TORRES, R. da S. ; KOZIEVITCH, N. P. Annotation. In: Edward Fox; Ricardo da S. Torres. (Orgs.). Digital Library Technologies: Complex Objects, Annotation, Ontologies, Classification, Extraction, and Security. Morgan & Claypool Publishers, 2014, v. , p. 29-62.

TORRES, R. da S. ; KOZIEVITCH, N. P. ; MURTHY, U. ; FALCAO, A. X. Content-Based Image Retrieval. In: Edward Fox; Jonathan P. Leidig. (Orgs.). Digital Libraries Applications: CBIR, Education, Social Networks,

eScience/Simulation, and GIS. Synthesis Lectures on Information Concepts, Retrieval, and Services. Morgan & Claypool Publishers, p. 1-26, 2014.

2012

CARVALHO, T. ; PINTO, A. S. ; COSTA, F. O. ; PINHEIRO, G. R. ; ROCHA, A. Crime Scene Investigation (CSI): da Ficção à Realidade. In: Escola Regional de Informática de Minas Gerais (ERI-MG). (Org.). Anais da VII Escola Regional de Informática de Minas Gerais. 1ed.Juiz de Fora: ERI-MG, 2012, v. , p. 1-23.

2011

HEFLIN, B. ; SCHEIRER, W. J. ; ROCHA, A.; BOULT, T. E. . A Look at Eye Detection for Unconstrained Environments. In: Patrick S.P. Wang. (Org.). Pattern Recognition, Machine Intelligence and Biometrics: Expanding Frontiers. Springer-Verlag, 2011.

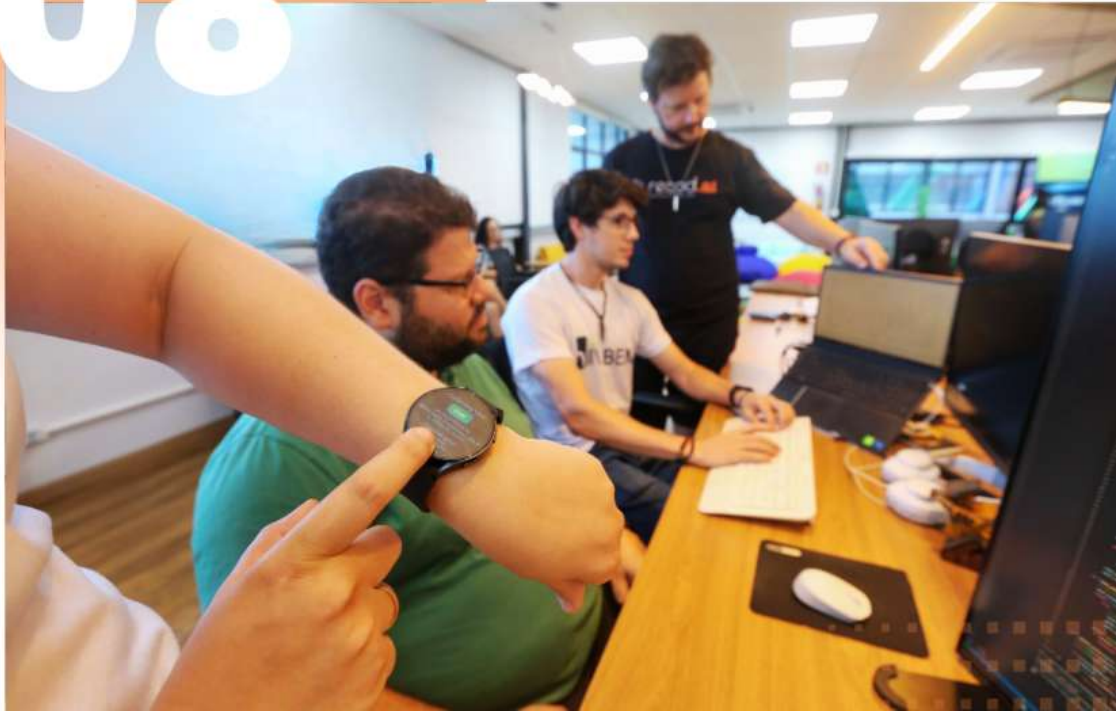
WAINER, J. ; Negrello, F. ; Assis, I. R. . RBAC with generic rights, delegation, revocation, and constraints. In: Raj Sharman; Manish Gupta ; Sanjukta Das-Smith. (Org.). Digital Identity and Access Management: Technologies and Frameworks. Hershey, PA (USA): IGI Global, 2011.

Fox, E. A. ; Murthy, U. ; Yang, S. ; TORRES, R. ; Velasco-Martin, J. ; Marchionini, G. . Pedagogical Enhancements to a Course on Information Retrieval. In: Efthimis N. Efthimiadis, Juan Manuel Fernandez Luna, Juan Huete, Andrew MacFarlane. (Org.). Teaching and Learning in Information Retrieval. Heidelberg: Springer Verlag, 2011, v. 31, p. 47-60.

2010

ROCHA, A. ; GOLDENSTEIN, S. CSI: Análise Forense de Documentos Digitais. In: Sociedade Brasileira de Computação. (Org.). Atualizações em Informática (2010). 1ed.Rio de Janeiro: PUC-Rio, 2010, p. 263-317.

08



Patents

2024

BERTOCCO, F. C.; RABELO, N. F.; VEGA-OLIVEROS, D. A.; SORIANO-VARGAS, A. R.; DE FRANÇA, B. B. N.; ROCHA, A. Viva Sensing. Appl. No. BR512024000979-5, filed Jan 02, 2024. Applicant: Samsung Eletrônica da Amazônia LTDA., Universidade Estadual de Campinas. INPI - Instituto Nacional da Propriedade Industrial.

2020

ROCHA, ANDERSON REZENDE ; NAVARRO, LUIZ CLAUDIO ; DELAFIORI, JEANY ; CATHARINO, RODRIGO RAMOS . Automated method for molecular selection. 2020, Brasil. Patente: Privilégio de Inovação. Appl. No. BR1020200159160, INPI - Instituto Nacional da Propriedade Industrial. Depósito: 04/08/2020.

2018

Andaló, F. A. ; Padilha, R. ; Almeida, W. ; Bertocco, G. ; Wainer, J. ; TORRES, R. da S. ; Rocha, A. . Multiple-tiered facial recognition. 2018. Appl. No: 15/918462, United States Patent and Trademark Office. Depósito: 12/03/2018.

2016

AVILA, S. E. F. ; MOREIRA, D. ; PEREZ, M. ; MORAES, D. ; TESTONI, V. ; VALLE, E. ; GOLDENSTEIN, S. ; ROCHA, A. Método multimodal e em tempo real para filtragem de conteúdo sensível. Appl. No. BR102016007265, filed Apr 1, 2016, Applicant: Samsung Eletrônica da Amazônia LTDA, Universidade Estadual de Campinas. INPI - Instituto Nacional da Propriedade Industrial.

AVILA, S. E. F. ; MOREIRA, D. ; PEREZ, M. ; MORAES, D. ; TESTONI, V. ; VALLE, E. ; GOLDENSTEIN, S. ; ROCHA, A. A multimodal and real-time method for sensitive media content filtering. Appl. No. US15198626, filed Jun 6, 2016,

Applicant: Samsung Electronica Da Amazonia LTDA. United States Patent and Trademark Office. Depósito: 30/06/2016.

2014

ROCHA, A. ; PAZINATO, D. V. ; ALMEIDA, W. R. ; MENDES, P. R. ; PENATTI, O. A. B. ; TORRES, R. da S. ; WERNECK, R. O. ; STEIN, B. V. Método para Classificação Automática de Visões do Coração a partir de Ecocardiogramas. Appl. No. BR10201401105, filed May 7, 2014, Applicant: Samsung Eletrônica da Amazônia LTDA., Universidade Estadual de Campinas. INPI - Instituto Nacional da Propriedade Industrial.

MENDES, P. R. ; SOUZA, R. ; WERNECK, R. O. ; STEIN, B. V. ; PAZINATO, D. V. ; ALMEIDA, W. R. ; PENATTI, O. A. B. ; TORRES, R. da S. ; ROCHA, A. Método para Classificação Multiclasse em Cenários Abertos e Usos do Mesmo. Appl. No. BR1020140237801, filed Sep 25, 2014, published May 17, 2016, Applicant: Samsung Eletrônica da Amazônia LTDA., Universidade Estadual de Campinas. INPI - Instituto Nacional da Propriedade Industrial.

MENDES, P. R. ; SOUZA, R. ; WERNECK, R. O. ; STEIN, B. V. ; PAZINATO, D. V. ; ALMEIDA, W. R. ; PENATTI, O. A. B. ; TORRES, R. da S. ; ROCHA, A. Method for Multiclass Classification in Open-set Scenarios and uses thereof. Appl. No. 14/532580, Pub. No. US20160092790 A1, filed Nov 4, 2014, published Mar 31, 2016, Applicant: Samsung Eletrônica da Amazônia LTDA., Universidade Estadual de Campinas. USPTO - United States Patent and Trademark Office.

2010

ROCHA, A. ; HAUAGGE, D. ; WAINER, J. ; GOLDENSTEIN, S. Method and system for recognition and classification of objects in semi-controlled environments. Appl. No. PCT/BR2010/000073, Pub. No. WO2011106854A1, filed Mar 3, 2010, published Sep 9, 2011, Applicant: INOVA - Agência de Inovação, Universidade Estadual de Campinas. WIPO - World Intellectual Property Organization.

TORRES, R. da S. ; VALLE, E. ; AKUNE, F. C. Método de indexação para dados de alta dimensionalidade em grandes bases de dados usando uma curva de Peano (curva preenchedora do espaço) e múltiplos representantes para os dados. Appl. No. PI 1005767-6 A2, filed Dec 20, 2010, published Apr 2, 2013, Applicant: Universidade Estadual de Campinas. INPI - Instituto Nacional da Propriedade Intelectual.

BOULT, T. E. ; SCHEIRER, W. J. ; ROCHA, A. System and apparatus for failure prediction and fusion in classification and recognition. Appl. No. US 12/766283, Pub. No. US20110106734 A1, filed Apr 23, 2010, published May 5, 2011, Applicant: Terrance Boulton, Walter Scheirer, Anderson De Rezende Rocha. USPTO - United States Patent and Trademark Office.

09



Awards

2023

Academic Recognition Award in Human Rights, Vladimir Herzog Institute and University of Campinas, “Leveraging self-supervised learning for scene recognition in child sexual abuse imagery” (Master thesis). Sandra Ávila.

2022

Google Award for Inclusion Research, “Dark Skin Matters: Building Fair and Unbiased Skin Lesion Classification Models” (Faculty award). Sandra Avila.

Runner-up Best Paper Award, ISIC Skin Image Analysis Workshop at the European Conference on Computer Vision (ECCV), “An Evaluation of Self-supervised Pre-training for Skin-lesion Analysis”. Sandra Ávila.

2021

1st Place Winner of Best Doctorate Thesis in the Concurso de Teses e Dissertações do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos, SBC. Leandro Aparecido Villas.

Google Latin American Research Awards. The Quest for Generalization in Small Medical Datasets. Sandra Ávila, Levy Gurgel Chaves.

2020

Google Latin American Research Awards. Combate a notícias falsas por meio da atribuição de autoria e análise de filogenia. Anderson Rocha, Antônio Theóphilo.

Google Latin American Research Awards. Repensando a classificação automática do câncer de pele com aprendizado não-supervisionado de representação. Sandra Ávila, Alceu Bissoto.

1º lugar no Concurso de Teses e Dissertações (CTD), Simpósio Brasileiro de Computação Aplicada à Saúde (SBCAS). Aluno: Alceu Blssoto, Análise de Lesões de Pele usando Redes Generativas Adversariais.

1st Place Winner of the Upscaling Euro Data Cube COVID-19 Script Contest Organized by Europe Spacial Agency (ESA) - Algorithm: Measuring Airport Activity from Sentinel-2 Imagery to Support Decision-Making during the Pandemic.

Honorable Mention Award, ISIC Skin Image Analysis Workshop at CVPR, Debiasing skin lesion datasets and models? Not so fast.

2019

Melhor Tese de Doutorado. (Estudante: Allan da Silva Pinto). Prêmio Capes de Tese.

Melhor Tese de Doutorado. (Estudante: Allan da Silva Pinto). Instituto de Computação, UNICAMP.

Melhor Tese de Doutorado. (Estudante: José Ramon Trindade Pires). Prêmio CTD da SBC.

Google Latin America Research Awards, Improving Skin Cancer Classification with Generative Adversarial Networks. Alceu Emanuel Bissoto, Sandra Ávila.

Best Paper Award, ISIC Skin Image Analysis Workshop at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), (De) Constructing Bias on Skin Lesion Datasets".

Honorable Mention (Runner-up Best Paper) for Debiasing Skin Lesion Datasets and Models? Not So Fast, International Skin Imaging Collaboration (Workshop / CVPR 2020).

Prêmio Futuro Cientista, 13º Congresso Interinstitucional de Iniciação Científica (CIIC). Aluno: Leonardo Lima De Souza., Detecção de Frutos em Viticultura utilizando Redes Neurais e a Base de Dados Embrapa WGISD.

2018

Eleição - Vice-Chair do IEEE Information Forensics and Security Technical Committee (Prof. Anderson Rocha), IEEE IFS-TC.

TOP25 "Most Cited Computer Vision and Image Understanding Articles", Pooling in Image Representation: the Visual Codeword Point of View (Prof. Sandra Eliza Fontes de Ávila).

Google Latin America Research Awards, Improving Skin Cancer Classification with Generative Adversarial Networks". Alceu Emanuel Bissoto, Sandra Ávila.

Best Poster Award, International Educational Symposium of The Melanoma World Society, Generating High Quality Synthetic Skin Lesions for Boosting Automated Screening.

Best Paper Award, ISIC Skin Image Analysis Workshop at MICCAI, Data Augmentation for Skin Lesion Analysis.

Prêmio Inventores Unicamp, categoria Tecnologia Licenciada, Agência de Inovação da Unicamp.

Mérito Científico, XXVI Congresso de Iniciação Científica da Unicamp. Aluna: Akari Ishikawa.

Prêmio Futuro Cientista, 12º Congresso Interinstitucional de Iniciação Científica (CIIC). Aluna: Andreza Aparecida dos Santos., Detecção Automática de Uvas e Folhas em Viticultura com uma Rede Neural YOLOv2.

Prêmio Inventores 2018 na Categoria Tecnologia Licenciada para a Patente "Método para filtragem de conteúdo sensível" (Empresa licenciada: Samsung), Agência de Inovação INOVA/UNICAMP.

2017

Best Paper Award. Paper: Going deeper into copy-move forgery detection: exploring image telltales via multi-scale analysis and voting processes, Journal of Visual Communication and Image Representation (JVCI).

Melhor Tese de Doutorado (Estudante: Daniel Henriques Moreira), Sociedade Brasileira de Computação (SBC).

Melhor Tese de Doutorado (Estudante: Anselmo Castelo Branco Ferreira), Instituto de Computação, Universidade Estadual de Campinas.

Prêmio INOVA de Iniciação à Inovação (Estudante: Gabriel Capiteli Bertocco), Inova/Unicamp.

TOP25 "Most Cited Computer Vision and Image Understanding Articles", Pooling in Image Representation: the Visual Codeword Point of View (Prof. Sandra Eliza Fontes de Ávila).

3º lugar no ISIC 2017: Skin Lesion Analysis Towards Melanoma Detection Part 3: Lesion Classification, IEEE International Symposium on Biomedical Imaging.

Menção Honrosa, 12a Conferência Brasileira de Melanoma, Knowledge Transfer for Melanoma Screening with Deep Learning.

Google Latin America Research Awards 2017, Google. (Prof. Eduardo Alves do Valle Junior).

Ranked Top 25% PLOS ONE Tenth Anniversary Most Cited Articles, PLOS ONE Journal. (Prof. Eduardo Alves do Valle Junior).

Menção Honrosa, Trabalho "Utilizando Redes Complexas Para Análise De Jogos De Futebol", XVII Congresso Brasileiro de Biomecânica (Prof. Ricardo da Silva Torres).

2016

2nd Best Paper Award (Student Paulo Vitorino), Workshop de Visão Computacional (WVC), 2016.

Best Poster Award (Student Guilherme Folego), Workshop de Visão Computacional (WVC), 2016.

Esteemed Paper of 2015, "Mid-level Image Representations for Real-time Heart View Plane Classification of Echocardiograms", Elsevier Computers in Biology and Medicine, 2016.

Election - Member of the IFS-TC (Prof. Anderson Rocha), IEEE Information Forensics and Security Technical Committee, IEEE Signal Processing Society, 2016.

Two Google Research Awards for Latin America, 2016.

Most Cited Computer Vision and Image Understanding Articles (according to SCOPUS, since 2011), "Pooling in image representation: The visual codeword point of view", Computer Vision and Image Understanding, Elsevier, 2016.

Unicamp Inventor Award 2016, Category "Licensed Technology", Agência de Inovação Inova Unicamp, 2016.

Tan Chin Tuan Fellowship (Prof. Anderson Rocha), Tan Chin Tuan Foundation (Singapore), 2016.

Top 10 Master's Dissertations (Student Alberto Arruda de Oliveira), Sociedade Brasileira de Computação (SBC), 2016.

2nd place - Face Recognition Challenge (Fernanda Andaló and Geise Santos), 13th IAPR/IEEE/Eurasip International Summer school for advanced

studies on biometrics: Biometrics, Forensic Science and the Quest for Identity, IAPR/IEEE/Eurasip.

2015

EEE Senior Member (Prof. Anderson Rocha), IEEE, 2015.

2nd Best Ph.D. Thesis of 2014 (Student Tiago José de Carvalho), Sociedade Brasileira de Computação (CTD-SBC), 2015.

2014

3rd Best Master's Dissertation (Student José Ramon Trindade Pires), Sociedade Brasileira de Computação (SBC), 2014.

Best Student Paper Award (Student Ambra Melloni), European Workshop on Visual Information Processing (EUVIP), 2014.

Academic Excellence Awards (Prof. Anderson Rocha), Institute of Computing, Unicamp, 2014.

JVCI Best Paper Award Runner Up (2012-2013), "Comparative study of global color and texture descriptors for web image retrieval", The Editorial Board of Journal of Visual Communication and Image Representation, 2014.

2nd place - Violence Scene Detection MediaEval for Online Videos, MediaEval, 2014.

Best Undergraduate Research of 2013 (Student Flavia Pisani), Institute of Computing, Unicamp, 2014.

Best Ph.D. thesis (Student Tiago José de Carvalho), Conference on Graphics, Patterns and Images (SIBGRAPI), 2014.

Best Ph.D. thesis of 2013, "Semi-Automatic Classification of Remote Sensing Images" (Student Jefersson Alex dos Santos), Institute of Computing, Unicamp, 2014.

Honorable Mention, XXII Congresso de Iniciação Científica da UNICAMP (Student Flávia Pisani), "Paralelização de Algoritmo de Reclassificação e Agregação de Listas Ordenadas para Grandes Coleções de Imagens", Pró-Reitoria de Pesquisa, UNICAMP, 2014.

2013

Undergraduate research award (Student Flavia Pisani) - 11º Prêmio Destaque na Iniciação Científica e Tecnológica, categoria Bolsista de Iniciação Científica, da área de Ciências Exatas, da Terra e Engenharias, CNPq, 2013.

Member of the Brazilian Academy of Forensic Sciences (Prof. Anderson Rocha), Academia Brasileira de Ciências Forenses (ABCF), 2013.

First place - ICB 2013 Competition on face recognition in mobile environment using the MOBIO database, Intl. Conference on Biometrics (ICB), 2013.

2nd Best Ph.D. Thesis (Student Jefersson Alex dos Santos), "Semi-Automatic Classification of Remote Sensing Images", Workshop of Theses and Dissertations, 26th Conference on Graphics, Patterns and Images (SIBGRAPI), 2013.

3rd Best Ph.D. Thesis (Student Daniel Carlos G. Pedronette), "Exploiting Contextual Information for Image Re-Ranking and Rank Aggregation in Image Retrieval Tasks", XXVI Concurso de Teses e Dissertações, Sociedade Brasileira de Computação (SBC), 2013.

Top 25 Hottest Articles (January to December 2012), "Comparative study of global color and texture descriptors for web", Journal of Visual Communication and Image Representation, 2013.

2012

Best Student Paper Award (Student Filipe de O. Costa), Conference on Graphics, Patterns and Images (SIBGRAPI), 2012.

Finalist - Best Ph.D. Award (Student Jurandy Gomes de Almeida Júnior), "Recuperação de Vídeos Comprimidos por Conteúdo", XXV Concurso de Teses e Dissertações, Sociedade Brasileira de Computação (SBC), 2012.

Best Ph.D. Thesis (Student Jurandy Gomes de Almeida Júnior), "Content-based Retrieval of Compressed Videos", 25th Conference on Graphics, Patterns and Images (SIBGRAPI), 2012.

Best Ph.D. Thesis (Student Daniel Carlos G. Pedronette), "Exploiting Contextual Information for Image Re-Ranking and Rank Aggregation in Image Retrieval Tasks", Institute of Computing, Unicamp, 2012.

Science Merit Award, Category "Melhor tema livre" (Student Diego de Souza), "Ferramenta de Busca Integrada de Imagem e Partes de Imagem em Bibliotecas Digitais", XX Congresso Interno de Iniciação Científica da UNICAMP, Pró-Reitoria de Pesquisa da UNICAMP, 2012.

Academic Excellence Awards (Prof. Ricardo da Silva Torres), Institute of Computing, Unicamp, 2014.

INOVA Award, Category "Iniciação à Inovação" (Student Giuliano Roberto Pinheiro), INOVA/Unicamp, 2012.

1st place - ScienceDirect Top 25 Most Downloaded Articles, 2012 Full Year, Elsevier, Journal of Visual Communication and Image Representation, 2012.

2nd place - Image Retrieval, Subtask 1: Concept Annotation, ImageCLEF, 2012.

2nd Best Ph.D. Thesis (Student Daniel Carlos Guimarães Pedronette), "Exploiting Contextual Information in Image Retrieval Tasks", Workshop of Theses and Dissertations, 25th Conference on Graphics, Patterns and Images (SIBGRAPI), 2012.

2011

Best paper award, "Encoding spatial arrangement of visual words", 16th Iberoamerican Congress on Pattern Recognition (CIARP), 2011.

Election - Affiliate Member of the ABC (Prof. Anderson Rocha), Brazilian Academy of Sciences (ABC), 2011.

Election - Member of the IFS-TC (Prof. Anderson Rocha), IEEE Information Forensics and Security Technical Committee, IEEE Signal Processing Society, 2011.

Best Master's Dissertation (Student Tiago Carvalho), Conference on Graphics, Patterns and Images (SIBGRAPI), 2011.

Best Ph.D. Thesis of 2010 (Anderson Rocha), CAPES Thesis Award, CAPES, 2011.

Microsoft Research Faculty Fellow (Prof. Anderson Rocha), Microsoft Research, 2011.

2nd place - IJCB 2011 Competition on counter measures to 2D facial spoofing attacks, International Joint Conference on Biometrics (IJCB), 2011.

2010

Best Ph.D. Thesis (Anderson Rocha), Conference on Graphics, Patterns and Images (SIBGRAPI), 2010.

Best Master's Dissertation (Student Jefersson Alex dos Santos), "Reconhecimento Semi-Automático e Vetorização de Regiões em Imagens de Sensoriamento Remoto", Institute of Computing, Unicamp, 2010.

Best Ph.D. Thesis (Anderson Rocha), Institute of Computing, Unicamp, 2010.

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Concluded Supervisions

The research center has successfully completed numerous alumni across different academic levels, including postdoctoral, doctoral, master's, and undergraduate research projects. These alumni have covered a wide range of topics in artificial intelligence, on cutting-edge research, resulting in high-impact publications and innovations that bridges theory and practice, preparing for both academic careers and industry roles. Through these alumni, the center has nurtured a new generation of researchers and professionals, while significantly advancing its own scientific goals.

1. Post-Doctoral

2024

Didier Vega-Oliveros. 2024. Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Anderson de Rezende Rocha.

Pedro Ribeiro Mendes Jr.. 2024. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

Rafael de Oliveira Werneck. 2024. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

Manuel Castro Avila. 2024. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

Erikson Freitas de Moraes. 2024. Instituto de Computação - Universidade Estadual de Campinas, . Anderson de Rezende Rocha.

Amir Jalilifard. 2024. Instituto de Computação - Universidade Estadual de Campinas, . Anderson de Rezende Rocha.

Igor Leonardo Oliveira Bastos. 2024. Instituto de Computação - Universidade Estadual de Campinas, . Anderson de Rezende Rocha.

Victor Eduardo Martinez Abaunza. 2024. Universidade Estadual de Campinas, Funcamp. Marcelo da Silva Reis.

Leo Sampaio Ferraz Ribeiro. 2024. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Sandra Eliza Fontes de Avila.

2023

Marcos Cirne. 2023. Instituto de Computação - Universidade Estadual de Campinas, Motorola Mobility. Anderson de Rezende Rocha.

Víctor Eduardo Martínez Abaunza. 2023. Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Anderson de Rezende Rocha.

Michael Macedo Diniz. 2023. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

2022

Leopoldo Andre Dutra Lusquino Filho. 2022. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

Ahmed Esmin. 2022. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

Marcelo Zampieri. 2022. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

Ivan Passoni. 2022. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

Vitor Hugo De Sousa Ferreira. 2022. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

Thalita Biazuz Veronese. 2022. Universidade Estadual de Campinas. Marcos Medeiros Raimundo.

2021

Aurea Soriano Vargas. 2021. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

Mohammed Manzur Hossain. 2021. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

Eduardo dos Santos Pereira. 2021. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc.. Anderson de Rezende Rocha.

Maycon Leone Maciel Peixoto. 2021. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Leandro Aparecido Villas.

2020

Bahram Lavi. 2020. DéjàVu: Feature-Space-Time Coherence from Heterogeneous Data for Media Integrity Analytics and Interpretation of Events. Fundação de Amparo à Pesquisa do Estado de São Paulo. Supervisor: Anderson de Rezende Rocha.

Raphael Prates. 2020. Shell-ml Desenvolvimento de Técnicas de Aprendizado de Máquina para Análise de Dados Complexos de Produção de um Campo do Pre-Sal. Supervisor: Anderson de Rezende Rocha.

2019

Thomas Beltrame. 2019. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Ricardo da Silva Torres.

Allan Silva Pinto. 2019. Universidade Estadual de Campinas, Samsung. Ricardo da Silva Torres.

Marcos Vinicius Mussel Cirne. BioLive: Multi-feature and Open-Set Authentication Techniques for Mobile Devices. Started 2019. Instituto de Computação - Universidade Estadual de Campinas, Motorola Mobility. Supervisor: Anderson de Rezende Rocha.

Aurea R. Soriano V. Integration of Reservoir Simulation and 4D Seismic data - Phase 2. 2019. Instituto de Computação - Universidade Estadual de Campinas, Shell Inc. Supervisor: Anderson de Rezende Rocha.

Alexandre Mello Ferreira. DeepEyes: Soluções de Computação Visual e Inteligência de Máquina para Computação Forense e Vigilância Eletrônica. 2019. Instituto de Computação - Universidade Estadual de Campinas,

Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Supervisor: Anderson de Rezende Rocha.

Fernanda Alcântara Andaló. BioLive: Multi-feature and Open-Set Authentication Techniques for Mobile Devices. 2019. Instituto de Computação - Universidade Estadual de Campinas, Motorola Mobility. Supervisor: Anderson de Rezende Rocha.

2018

Luis Augusto Martins Pereira. 2018. Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Anderson de Rezende Rocha.

2017

Alexandre Mello Ferreira. SmartID: Smart and Continuous Authentication Techniques for Mobile Devices. 2017. Instituto de Computação - Universidade Estadual de Campinas, LG Electronics. Supervisor: Anderson de Rezende Rocha.

Lin Tzy Li. Mineração de dados em logs de telefones móveis. 2017. Universidade Estadual de Campinas, Motorola Mobility. Supervisor: Eduardo Alves do Valle Junior.

Paulo Henrique Pisani. 2017. Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Anderson de Rezende Rocha.

2016

Marina Atsumi Oikawa. Reconstrução de florestas filogenéticas multimídia: recuperação de relações de ancestralidade de imagens, vídeos e documentos de texto. 2016. Instituto de Computação - Universidade

Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Supervisor: Anderson de Rezende Rocha.

Sandra Eliza Fontes de Avila. Sensitive Media Analysis. 2016. Instituto de Computação - Universidade Estadual de Campinas, Samsung Eletrônica da Amazônia. Supervisors: Anderson de Rezende Rocha, Eduardo Alves do Valle Junior.

Siovani Cintra Felipussi. 2016. Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Supervisor: Anderson de Rezende Rocha.

2015

Fabio Augusto Faria. Métodos de Fusão de Informação para Recuperação e Classificação Multimídia. 2015. Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Supervisor: Ricardo da Silva Torres.

Fernanda Alcântara Andaló. 2015. Instituto de Computação - Universidade Estadual de Campinas, Motorola Mobility. Anderson de Rezende Rocha.

Giovani Chiachia. Novos métodos para aprendizado de hierarquias visuais profundas. 2015. Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Supervisor: Anderson de Rezende Rocha.

Luciene Cristina Alves Rinaldi. SpotMe: Design and Development of Object Recognition and Data Fusion Techniques for Mobile and Wearable Devices. 2015. Instituto de Computação - Universidade Estadual de Campinas, LG Electronics. Supervisor: Anderson de Rezende Rocha.

2014

Vinicius de Lima Dantas. Towards an understanding of tipping points within tropical South American biomes. 2014. Universidade Estadual de

Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo.
Supervisor: Ricardo da Silva Torres.

2013

Jefersson Alex dos Santos. Multiscale Classification By Using Optimum Path-Forest. 2013. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Supervisor: Ricardo da Silva Torres.

Jurandy Gomes de Almeida Junior. Gestão de Séries Temporais do e-Phenology. 2013. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Supervisor: Ricardo da Silva Torres.

Marina Atsumi Oikawa. Multimedia Phylogeny. 2013. Instituto de Computação - Universidade Estadual de Campinas, União Européia. Supervisor: Anderson de Rezende Rocha.

Otávio Augusto Bizetto Penatti. Reconhecimento e Classificação de Padrões por Meio de Técnicas de Engenharia de Características, Fusão-*, Reconhecimento em Cenário Aberto e Meta-Reconhecimento. 2013. Instituto de Computação - Universidade Estadual de Campinas, Samsung Eletrônica da Amazônia. Supervisor: Anderson de Rezende Rocha.

2011

Eduardo Alves do Valle Junior. Indexação de Dados Multimídia em Alta Dimensionalidade: Aplicação à Busca em Bases de Imagens e Vídeos Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Supervisor: Ricardo da Silva Torres.

2009

Anderson Rezende Rocha. Análise forense de imagens: detecção de falsificações digitais e spoofing. 2009. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Supervisor: Siome Klein Goldenstein.

2. Ph.D.

2024

Gabriel Capiteli Bertocco. Self-supervised learning for fully unannotated person re-identification in real-world applications. 2024. Tese (Doutorado em Doutorado) - Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Orientador: Anderson de Rezende Rocha.

Jing Yang. Combating Disinformation with Explainable and Efficient Fact-checking. 2024. Tese (Doutorado em Doutorado) - Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Orientador: Anderson de Rezende Rocha.

João Phillipe Cardenuto. Strengthening Scientific Integrity: Digital Forensics for Biomedical Research Imaging. 2024. Tese (Doutorado em Doutorado) - Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Orientador: Anderson de Rezende Rocha.

Rodolfo Luis Tonoli. Speech-Driven Expressive Gesture Generation for Virtual Agents. 2024. Tese (Doutorado em Doutorado em Engenharia Elétrica - UNICAMP) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Orientador: Paula Dornhofer Paro Costa.

Alceu Emanuel Bissoto. Evaluating and mitigating bias in skin lesion analysis. 2024. Tese (Doutorado em Ciência da Computação) - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Orientador: Sandra Eliza Fontes de Avila.

2022

Antonio Carlos Theophilo Costa Jr.. Authorship Attribution of Small Messages. 2022. Tese (Doutorado em Doutorado) - Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de Minas Gerais. Orientador: Anderson de Rezende Rocha.

Rafael Soares Padilha. Learning visual clues of the passage of time. 2022. Tese (Doutorado em Doutorado) - Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Orientador: Anderson de Rezende Rocha.

Edson Riberto Bollis. Métodos fracamente supervisionados para classificação de ácaros na citricultura. 2022. Tese (Doutorado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Orientador: Sandra Eliza Fontes de Avila.

2021

Samuel Fadel. Learning in non-Euclidean Domains: from Graphs to Generative Modeling. 2021. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

2020

Cristina Cavalcante. Learning-from-data Approaches to the History-Matching Problem. 2020. Instituto de Computação - Universidade Estadual de Campinas. Advisor: Anderson de Rezende Rocha.

Danielle Furtado dos Santos Dias. Representações de Séries Temporais Baseadas em Imagens para Classificação de Imagens de Satélite. 2020. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

Icaro Dourado. Graph-based rank aggregation. 2020. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

Javier A. Vargas Munoz. Large-Scale Indexing of High Dimensional Data via Nearest Neighbor Graphs. 2020. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

2019

Alberto Arruda de Oliveira. Relevance Prediction in Information Retrieval Systems. 2019. Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Anderson de Rezende Rocha.

Juliana Medeiros Destro. Cross-language ontology matching. 2019. Universidade Estadual de Campinas, . Co-advisor: Ricardo da Silva Torres.

Michel Silva Fornaciali. Reliable Automated Melanoma Screening for the Real World. 2019. Universidade Estadual de Campinas, . Advisor: Eduardo Alves do Valle Junior. Co-advisor: Sandra Eliza Fontes de Avila.

Rafael de Oliveira Werneck. Learning Graph-based Representations and Matching in Classification Tasks. 2019. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

2018

Allan da Silva Pinto. Analysis of Intrinsic and Extrinsic Properties of Biometric Samples for Presentation Attack Detection. 2018. Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Anderson de Rezende Rocha.

Bruna Alberton. Fenologia Remota Próxima: dos Padrões de Trocas Foliares ao Entendimento de Ecossistemas. 2018. Universidade Estadual Paulista

Júlio de Mesquita Filho, Fundação de Amparo à Pesquisa do Estado de São Paulo. Co-advisor: Ricardo da Silva Torres.

Greice Cristina Mariano. Visualization of Cyclical Temporal Patterns in Phenology Studies. 2018. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Ricardo da Silva Torres.

José Ramon Trindade Pires. Image Analytics Techniques for Diabetic Retinopathy Detection. 2018. Universidade Estadual de Campinas, Samsung Eletrônica da Amazônia. Advisor: Anderson de Rezende Rocha. Co-advisor: Jacques Wainer.

Luis Augusto Martins Pereira. Domain Adaptation via Subspace Learning and Kernel Methods. 2018. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

Pedro Ribeiro Mendes Jr.. Open-set recognition for different classifiers. 2018. Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Anderson de Rezende Rocha.

2017

Daniele Cristina Uchôa Maia Rodrigues. Complex Network Measurements in Graph-based Spatio-Temporal Soccer Analysis. 2017. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

Hilário Seibel Jr.. Super-resolution in low-quality videos for forensics, surveillance, and mobile applications. 2017. Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Siome Klein Goldenstein. Co-advisor: Anderson de Rezende Rocha.

2016

Anselmo Castelo Branco Ferreira. Multi-Analysis Techniques for Digital Image Forensics. 2016. Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Anderson de Rezende Rocha.

Daniel Henriques Moreira. Sensitive-Video Analysis. 2016. Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Anderson de Rezende Rocha. Co-advisor: Siome Klein Goldenstein.

Filipe de Oliveira Costa. Image and Video Phylogeny Reconstruction. 2016. Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Anderson de Rezende Rocha.

Laurindo Neto. Sistemas Wearable baseados em Métodos de Visão Computacional para Auxiliar Pessoas com Deficiência Visual. 2016. Universidade Estadual de Campinas. Advisor: Siome Klein Goldenstein.

2015

Rodrigo Tripodi Calumby. Diversity-oriented Multimodal and Interactive Information Retrieval. 2015. Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Ricardo da Silva Torres.

2014

Fabio Augusto Faria. A Framework for Pattern Classifier Selection and Fusion. 2014. Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres, Co-advisor: Anderson de Rezende Rocha.

Lin Tzy Li. A Multimodal Framework for Geocoding Digital Objects. 2014. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

Tiago José de Carvalho. Illumination Inconsistency Sleuthing for Exposing Fauxtography and Uncovering Composition Telltales in Digital Images. 2014. Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Anderson de Rezende Rocha.

2013

Alexandre Tachard Passos. Combinatorial algorithms and linear programming for inference in natural language processing. 2013. Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Jacques Wainer.

Giovani Chiachia. Learning person-specific face representations. 2013. Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Co-advisor: Anderson de Rezende Rocha.

Jefersson Alex dos Santos. Semi-Automatic Classification of Remote Sensing Images. 2013. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

Marcelo de Miranda Coelho. Recuperação de Informação Visual em Grandes Bases de Dados de Cidades Históricas - Busca Semântica de Estilos Arquitetônicos em uma Abordagem Não-Supervisionada. 2013. Universidade Federal de Minas Gerais, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Co-advisor: Eduardo Alves do Valle Junior.

Paulo Gurgel Pinheiro. Planning for Mobile Robot Localization Using Architectural Design Features on a Hierarchical POMDP Approach. 2013. Universidade Estadual de Campinas. Advisor: Jacques Wainer.

Sandra Eliza Fontes de Avila. Extended Bag-of-Words Formalism for Image Classification. 2013. Universidade Federal de Minas Gerais, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Co-advisor: Eduardo Alves do Valle Junior.

2012

Antônio da Luz Junior. Detecção de Vídeos Não-Colaborativos com Base no Conteúdo Visual em Redes Sociais para Compartilhamento de Vídeo. 2012. Universidade Federal de Minas Gerais. Co-advisor: Eduardo Alves do Valle Junior.

Daniel Carlos Guimarães Pedronette. Exploiting Contextual Information for Image Re-Ranking and Rank Aggregation in Image Retrieval Tasks. 2012. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

Erikson Freitas de Moraes. Rastreamento de Jogadores de Futebol de Salão Usando Filtro de Partículas e Coordenadas no Plano da Quadra. 2012. Instituto de Computação - Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Siome Klein Goldenstein, Co-advisor: Anderson de Rezende Rocha.

Fernanda Andaló. Métodos de Visão Computacional aplicáveis à Ciência Forense. 2012. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Siome Klein Goldenstein.

Ivan Sendin. Representações de Incerteza no Cálculo de Estruturas de Proteínas. 2012. Universidade Estadual de Campinas. Advisor: Siome Klein Goldenstein.

Otávio Augusto Bizetto Penatti. Image and Video Representations based on Visual Dictionaries. 2012. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres, Co-advisor: Eduardo Alves do Valle Junior.

2011

Fabio de Lima Bezerra. Algoritmos de Detecção de Anomalias em Logs de Sistemas Baseados em Processos de Negócios. 2011. Universidade Estadual de Campinas. Advisor: Jacques Wainer.

Jurandy Gomes de Almeida Junior. Recuperação de Vídeos Comprimidos por Conteúdo. 2011. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

Nadia Puchalski Kozevitch. Objetos Complexos em Bibliotecas Digitais: Analisando o Gerenciamento de Componentes de Imagens. 2011. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

2010

Waldir Sabino Junior. Reconhecimento de Padrões Utilizando Filtros de Correlação com Análise de Componentes Principais. 2010. Universidade Federal do Rio de Janeiro. Co-advisor: Siome Klein Goldenstein.

2009

Cleo Zanella Billa. Um Experimento Formal para Avaliar Novas Formas de Visualização de Prontuários Clínicos Eletrônicos. 2009. Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Jacques Wainer.

Milton Daniel Urrutia Salinas. Estudo comparativo do tempo de consulta medica em um serviço de atendimento ambulatorial de especialidades pré e pós implantação de um sistema de prontuário eletrônico. 2009. Universidade Federal de São Paulo, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Jacques Wainer.

Rogério Araujo Medeiros. Estudo de tres casos de telemedicina no Brasil no período de 2005 e 2006: contextos e desdobramentos. 2009. Universidade Federal de São Paulo. Advisor: Jacques Wainer.

3. M.Sc.

2024

Matheus Correia Lindino. Uncovering Mental Well-Being: Detecting Stress, Anxious State and Stressors in a Case Study. 2024. Dissertação (Mestrado em Mestrado) - Instituto de Computação - Universidade Estadual de Campinas, Samsung Eletrônica da Amazônia. Orientador: Anderson de Rezende Rocha.

Alexis Aldo Mendoza Villarroel. Sedentary lifestyle detection via biosignals, machine learning and visual analysis. 2024. Dissertação (Mestrado em Mestrado) - Instituto de Computação - Universidade Estadual de Campinas, Samsung Eletrônica da Amazônia. Orientador: Anderson de Rezende Rocha.

Rebeca Padovani Ederli. Visual Representations for Classifying Sleep Stages. 2024. Dissertação (Mestrado em Mestrado) - Instituto de Computação - Universidade Estadual de Campinas, Samsung Eletrônica da Amazônia. Coorientador: Anderson de Rezende Rocha.

Leonardo Boulitreau Menezes M. Marques. Cross-Speaker Style Transfer for TTS with Singing Voice Conversion Data Augmentation, Style Filtering, and F0 Matching. 2024. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, . Orientador: Paula Dornhofer Paro Costa.

Brayan Bernardo de Souza. Speech-Driven 2D Facial Animation Based on a Two-Stage Generative Framework. 2024. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, . Orientador: Paula Dornhofer Paro Costa.

Luiza Amador Pozzobon. Toxicity Mitigation with Retrieval-Augmented Language Models applied to English and Portuguese Text Generation. 2024. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas. Orientador: Paula Dornhofer Paro Costa.

Vagner Inacio de Oliveira. Aprendizado de Máquina e Patrimônio Cultural: Extração Automática de Metadados de Acervos Digitais de Museus Brasileiros na Plataforma Tainacan. 2024. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas. Orientador: Paula Dornhofer Paro Costa.

Victória Pedrazzoli Ferreira. O futuro do monitoramento automático de publicidades: Como redes Transformers impactam na classificação de publicidades alimentícias. 2024. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Santander. Orientador: Sandra Eliza Fontes de Avila.

Jhessica Victoria Santos da Silva. Avaliação de ferramentas de ética em modelos de linguagem desenvolvidos em português. 2024. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Hub de Inteligência Artificial e Arquiteturas Cognitivas. Coorientador: Sandra Eliza Fontes de Avila.

2023

Marcelo Batista de Lima Junior. Desenvolvimento de um arcabouço para seleção Bayesiana aninhada de modelos de vias de sinalização celular. 2023. Dissertação (Mestrado em Bioinformática) - Universidade de São Paulo, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Orientador: Marcelo da Silva Reis.

Raysa Masson Benatti. Revealing gender biases in court decisions with natural language processing. 2023. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Coorientador: Sandra Eliza Fontes de Avila.

Thamiris Florindo Coelho. Transformers-Based Few-Shot Learning for Scene Classification in Child Sexual Abuse Imagery. 2023. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Grupo Santander. Orientador: Sandra Eliza Fontes de Avila.

Michele Bittencourt Rodrigues. Aplicando Técnicas de Inteligência Artificial e Aprendizado de Máquina para o Monitoramento Automático de

Publicidades de Alimentos no Brasil. 2023. Dissertação (Mestrado em Nutrição e Saúde) - Universidade Federal de Minas Gerais, . Coorientador: Sandra Eliza Fontes de Avila.

2022

Wladimir Arturo Garcés Carrillo. Reconhecimento de gestos em língua brasileira de sinais (Libras) utilizando transformadores visuais. 2022. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Orientador: Marcelo da Silva Reis.

Gian Fanco Joel Condori Luna. Análise de abordagens auto-supervisionadas para ajuste fino de modelos de linguagem para tarefas em português. 2022. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Orientador: Marcelo da Silva Reis.

Sadeeq Olalekan Bello. Aprendizado Ensemble Baseado em Arquitetura Cognitiva para Previsão de Rotatividade em Tempo Real. 2022. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Fundação de Desenvolvimento da Unicamp. Orientador: Marcelo da Silva Reis.

Patrick Anderson Matias de Araújo. Topic Modeling Influence on Sentiment Analysis from User-Generated Product Reviews. 2022. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Fundação de Desenvolvimento da Unicamp. Coorientador: Marcelo da Silva Reis.

Cristiano Gabriel de Souza Campos. Modelando Vias de Sinalização Celular por meio de Equações Diferenciais Universais e Inferência Conjunta de Parâmetros de Modelo de Primeiros Princípios e Pesos de Rede Neural. 2022. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, BECAS Santander. Orientador: Marcelo da Silva Reis.

Thiago Resek F. dos Anjos. Inferring Geographical Location of Images. 2022. Dissertação (Mestrado em Mestrado) - Instituto de Computação - Universidade Estadual de Campinas. Orientador: Anderson de Rezende Rocha.

Fabio Grassiotto. CogToM-CST: An implementation of Theory of Mind for the Cognitive Systems Toolkit. 2022. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas. Orientador: Paula Dornhofer Paro Costa.

Thiago Ribas Bella. Modelos de Predição de Óbitos por Doenças Cardiovasculares Utilizando Variáveis Ambientais e Estudo Exploratório com Cenários de Mudanças Climáticas. 2022. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Orientador: Paula Dornhofer Paro Costa.

Matheus Gustavo Alves Sasso. Species distribution modeling applied to MILPA agroecological consortium in Brazil. 2022. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, . Orientador: Paula Dornhofer Paro Costa.

Cícera Vanessa Marques Sampaio Sidrim. Neural architecture search analysis for object detection. 2022. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Orientadora: Sandra Eliza Fontes de Avila.

Rosa Yuliana Gabriela Paccotacya Yanque. A Comparative Analysis of eXplainable Artificial Intelligence Methods for Skin Lesion Classification. 2022. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Orientadora: Sandra Eliza Fontes de Avila.

Tito Barbosa Rezende. Interpretable deep neural networks with rejection option on tabular data. 2022. Dissertação (Mestrado em Ciência da

Computação) - Universidade Estadual de Campinas, . Orientadora: Sandra Eliza Fontes de Avila.

Levy Gurgel Chaves. Evaluating self-supervised pre-training in out-of-distribution and low-data scenarios. 2022. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Orientador: Sandra Eliza Fontes de Avila.

Pedro Henrique Vaz Valois. Leveraging self-supervised learning for scene recognition in child sexual abuse imagery. 2022. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, . Orientador: Sandra Eliza Fontes de Avila.

Athyron Machado Ribeiro. CI-EX: Confident-Inline Extrapolation para Inferência de Rejeitados em Pontuação de Crédito Financeiro. 2022. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, . Orientador: Marcos Medeiros Raimundo.

Arthur Hendricks Mendes de Oliveira. MAPOFCEM: Mineração de Explicações Contrafactuais Viáveis de Modelo Agnóstico Pareto-ótimo. 2022. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, . Orientador: Marcos Medeiros Raimundo.

2021

Stephane de Freitas Schwarz. Análise Forense de Mídias Sociais para Detectar Notícias Falsas Mediante Decomposição de Textos e Imagens. 2021. Dissertação (Mestrado em Mestrado) - Instituto de Computação - Universidade Estadual de Campinas. Orientador: Anderson de Rezende Rocha.

Camila Steffane Fernandes Teixeira de Moura. Detecção de DeepFakes a Partir de Técnicas de Visão Computacional e Aprendizado de Máquina. 2021. Dissertação (Mestrado em Mestrado) - Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Orientador: Anderson de Rezende Rocha.

Gustavo Estrela de Matos. Identification of cell signaling pathways based on biochemical reaction kinetics repositories. 2021. Dissertação (Mestrado em Ciências da Computação) - Universidade de São Paulo, Fundação de Amparo à Pesquisa do Estado de São Paulo. Orientador: Marcelo da Silva Reis.

Vitória Aquino Guardieiro. Multi-objective Machine Learning - Systematic Review. 2021. Dissertação (Mestrado em Modelagem Matemática da Informação) - Fundação Getúlio Vargas, . Coorientador: Marcos Medeiros Raimundo.

Raphael Adamski. Multiobjective Differentiable Neural Architecture Search. 2021. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, . Coorientador: Marcos Medeiros Raimundo.

2020

Décio Gonçalves de Aguiar Neto. Processamento de Reatórios de Bugs Utilizando Redes Neurais Profundas. 2020. Dissertação (Mestrado em Ciência da Computação) - Instituto de Computação/UNICAMP, . Orientador: Jacques Wainer.

Jonlenes Silva de Castro. Redes adversárias generativas para remoção de ruídos em dados sísmicos. 2020. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Orientadora: Sandra Eliza Fontes de Avila.

Jose L. Flores Campana. A comparative study of text detection and recognition approaches for restricted computing scenarios. 2020. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, . Orientador: Ricardo da Silva Torres.

Luís Gustavo Lorgus Decker. Scene Text Localization Using Lightweight Convolutional Networks. 2020. Dissertação (Mestrado em Ciência da

Computação) - Universidade Estadual de Campinas, . Orientador: Ricardo da Silva Torres.

Marcos Vinícius Adão Teixeira. Evaluating Attention-Based Models for Violence Classification in Videos. 2020. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, . Orientadora: Sandra Eliza Fontes de Avila.

2019

Alceu Emanuel Bissoto. Improving Skin Lesion Analysis with Generative Adversarial Networks. 2019. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Google Research Awards Latin America. Orientadora: Sandra Eliza Fontes de Avila.

Elisangela Silva dos Santos. Abordagens para Busca de Séries Temporais Representadas por Imagens de Recorrência. 2019. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, . Orientador: Ricardo da Silva Torres.

Fábio Vinícius Moreira Perez. Deep Learning for Skin Lesion Classification: Augment, Train, and Ensemble. 2019. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, . Orientador: Eduardo Alves do Valle Junior.

George Gondim Ribeiro. Adversarial Attacks on Variational Autoencoders. 2019. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Orientador: Eduardo Alves do Valle Junior.

Guilherme Adriano Fôlego. ADNet: Computer-Aided Diagnosis for Alzheimer's Disease Using Whole- Brain 3D Convolutional Neural Network. 2018. Dissertação (Mestrado em Mestrado) - Instituto de Computação - Universidade Estadual de Campinas, . Orientador: Anderson de Rezende Rocha.

Lucas Oliveira David. Connoisseur: Provenance Analysis in Paintings. 2019. Dissertação (Mestrado em Mestrado) - Instituto de Computação -

Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Orientador: Anderson de Rezende Rocha.

Mijail Ronald Vidal Vargas. Artificial Neural Networks in Embedded Systems Applications for User Authentication. 2019. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, LG Electronics do Brasil LTDA. Orientador: Eduardo Alves do Valle Junior.

Nathalia Menini Cardoso dos Santos. Tools and Study Cases for the Characterization of Remote Sensing Time Series. 2019. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Orientador: Ricardo da Silva Torres.

Vinícius de Paulo Souza Ribeiro. The Impact of Annotation Quality on Deep Learning for Skin Lesion Segmentation. 2019. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, . Orientador: Eduardo Alves do Valle Junior.

2018

Afonso Menegola. Deep Learning in Melanoma Screening. 2018. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Orientador: Eduardo Alves do Valle Junior.

Eduardo Seiti de Oliveira. Towards the effective delivery of an affordable Classroom Response System. 2018. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, . Orientador: Eduardo Alves do Valle Junior.

Jhosimar George Arias Figueroa. Deep Generative Models for Clustering: A Semi-supervised and Unsupervised Approach. 2018. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Adín Ramírez Rivera.

Julia Amaya Tavares. Deep-Learning Segmentation for Skin Lesion Images. 2018. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, . Orientador: Eduardo Alves do Valle Junior.

Rafael Medeiros Jacomel de Oliveira Silva. Análise de Sentimentos em Twitter. 2018. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas. Advisor: Jacques Wainer.

Waldir Rodrigues de Almeida. Data-driven Face Presentation-Attack Detection in Mobile Devices. 2018. Instituto de Computação - Universidade Estadual de Campinas, Motorola Mobility. Advisor: Anderson de Rezende Rocha.

2017

Alexandre Esteves Almeida. Time Series Components and Breakpoints in Remote Sensing Image Analysis. 2017. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

Darwin Danilo Saire Pilco. Multi-scale Morphological Image Simplification Based on Extremum Relationships. 2017. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Adín Ramírez Rivera.

Eric Carvalho Oakley. Image Retrieval with Relevance Feedback for Mobile Devices. 2017. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, . Advisor: Ricardo da Silva Torres.

Geise Kelly da Silva Santos. Técnicas para autenticação contínua em dispositivos móveis a partir do modo de caminhar. 2017. Dissertação (Mestrado em Mestrado) - Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Anderson de Rezende Rocha.

Giovani Frondana. Comparação de Regressores. 2017. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas. Advisor: Jacques Wainer.

Juan Felipe Hernández Albarracín. Genetic-Programming-based Spectral Indices for Remote Sensing Image Classification. 2017. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Ricardo da Silva Torres.

Pedro Tabacof. Exploring Adversarial Images in Deep Neural Networks. 2017. Dissertação (Mestrado em Engenharia Elétrica) - Universidade Estadual de Campinas, . Advisor: Eduardo Alves do Valle Junior.

Rafael Soares Padilha. Two-Tiered Facial Verification for Mobile Devices. 2017. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas. Advisor: Jacques Wainer.

Vandalis Giansante. Um Arcabouço Baseado em Anotações para enriquecimento Semântico de Documentos Textuais. 2017. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

2016

Ederlon Barbosa Cruz. Representação de Séries Temporais Usando Descritores de Forma Aplicados a Recurrence Plots. 2016. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Ricardo da Silva Torres.

Ícaro Cavalcante Dourado. Bag of Textual Graphs: an accurate, efficient, and general-purpose graph-based text representation model. 2016. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

Javier A. Vargas. A Soft Computing Approach for Learning to Aggregate Rankings. 2016. Universidade Estadual de Campinas, Coordenação de

Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Ricardo da Silva Torres.

Karina Olga Bogdan. Multiple Tracklet Matching under Severe Occlusions. 2016. Universidade Estadual de Campinas. Advisor: Siome Klein Goldenstein.

Maurício Lisboa Perez. Video pornography detection through deep learning techniques and motion information. 2016. Instituto de Computação - Universidade Estadual de Campinas, Samsung Eletrônica da Amazônia. Advisor: Anderson de Rezende Rocha.

Paulo Roberto Rocha Vitorino. Detecção de pornografia infantil em imagens através de técnicas de aprendizado profundo. 2016. Universidade de Brasília. Advisor: Anderson de Rezende Rocha.

2015

Aginaldo Aparecido Esmael. Classificação Multiclasse Multiescala de Imagens de Sensoriamento Remoto. 2015. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Ricardo da Silva Torres.

Alberto Arruda de Oliveira. Multiple Parenting Relations in Image Phylogeny. 2015. Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Anderson de Rezende Rocha.

Eric Velten. Semi e Weighted Semi-Nonnegative Matrix Factorization: Estudo Comparativo. 2015. Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Jacques Wainer.

Flavio Nicastro. A Semiotic-Informed Approach to Interface Guidelines for Mobile Applications: A Case Study on Phenology Data Acquisition. 2015. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

Jomara Mota Bindá. Sistema de Resposta à Audiência baseado em Visão por Computador. 2015. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado do Amazonas. Advisor: Eduardo Alves do Valle Junior.

Manuel Alberto Córdova Neira. Técnicas de Combinação de Evidências para Problemas de Reconhecimento em Cenário Aberto. 2015. Universidade Estadual de Campinas, Secretaría de Educación Superior, Ciencia, Tecnología e Innovación. Advisor: Ricardo da Silva Torres.

Micael Cabrera Carvalho. Transfer Schemes for Deep Learning in Image Classification. 2015. Universidade Estadual de Campinas. Advisor: Alves do Valle Junior.

Michel Silva Fornaciali. Image Classification of Specific Datasets in Mobile Environments. 2015. Universidade Estadual de Campinas. Advisor: Eduardo Alves do Valle Junior.

Pablo Alejandro Fonseca Arroyo. Três tópicos em aprendizado de máquina. 2015. Universidade Estadual de Campinas. Advisor: Jacques Wainer.

Paul Joseph Hidalgo Flores. Compact features for mobile visual search. 2015. Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Eduardo Alves do Valle Junior.

Vladimir Jaime Rocca Layza. Uso de Técnicas de Recuperação de Imagens para o Problema de Reidentificação de Pessoas. 2015. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Ricardo da Silva Torres.

2014

Daniel Bastos Moraes. Low False Positive Learning with Support Vector Machines. 2014. Instituto de Computação - Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Anderson de Rezende Rocha.

Diego Chavez Escalante. Métodos de Aprendizado Semi-Supervisionado com Grafos usando Processamento de Sinais. 2012. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Siome Klein Goldenstein.

Douglas Parra. Comparação entre algoritmos de reconhecimento de face no contexto de acessibilidade. 2012. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Siome Klein Goldenstein.

Eliezer de Souza da Silva. Metric space indexing for nearest neighbor search in multimedia context. 2014. Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Eduardo Alves do Valle Junior.

Felipe Leonel Grijalva Arévalo. Redução de dimensionalidade usando Isomap aplicada ao áudio espacial. 2014. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Co-advisor: Siome Klein Goldenstein.

Fernanda Brandão Silva. Bag of Graphs: Definition, Implementation, and Validation in Classification Tasks. 2014. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

Pedro Ribeiro Mendes Júnior. Open-Set Optimum-Path Forest Classifier. 2014. Instituto de Computação - Universidade Estadual de Campinas, Samsung Eletrônica da Amazônia. Advisor: Anderson de Rezende Rocha. Co-advisor: Ricardo da Silva Torres.

Rafael de Oliveira Werneck. A unified framework for design, deployment, execution, and recommendation of machine learning experiments. 2014. Instituto de Computação - Universidade Estadual de Campinas, Samsung Eletrônica da Amazônia. Advisor: Ricardo da Silva Torres. Co-advisor: Anderson de Rezende Rocha.

Thiago Cavalcante. Authorship Attribution on Micro-Messages. 2014. Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Co-advisor: Anderson de Rezende Rocha.

2013

Allan da Silva Pinto. A Countermeasure Method for Video-Based Face Spoofing Attacks. 2013. Instituto de Computação - Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Anderson de Rezende Rocha.

Bruna Alberton. Fenologia remota: uso de imagens digitais no acompanhamento fenológico de plantas em uma área de cerrado sensu stricto, no município de Itirapina, São Paulo. 2013. Universidade Estadual Paulista Júlio de Mesquita Filho. Co-advisor: Ricardo da Silva Torres.

Fábio Kenji Masago. Odysseýs: Sistema para Análise de Documentos de Patentes. 2013. Universidade Estadual de Campinas. Advisor: Jacques Wainer.

Greice Cristina Mariano. Especificação e Implementação do Banco de Dados do Projeto e-Phenology. 2013. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

José Carlos Conti. Eficácia de medidas de similaridade para a classificação de séries temporais associadas ao comportamento fenológico de plantas. 2013. Universidade Estadual de Campinas. Co-advisor: Ricardo da Silva Torres.

José Ramon Trindade Pires. Diabetic retinopathy image quality assessment, detection, screening and referral. 2013. Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Anderson de Rezende Rocha.

Junior John Fabián Arteaga. Searching for People Through Textual and Visual Attributes. 2013. Instituto de Computação - Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Anderson de Rezende Rocha.

Thiago Anzolin de Godoi. Uma Abordagem baseada em Realimentação de Relevância para o Problema da Desambiguação de Nome de Autores. 2013. Universidade Estadual de Campinas. Co-advisor: Ricardo da Silva Torres.

2012

Emerson Muraro. Arcabouço para Anotação de Componentes de Imagem. 2012. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

Erik Keiji Tokuda. Projeto e Desenvolvimento de Técnicas Forenses para Identificação de Imagens Sintéticas. 2012. Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Co-advisor: Anderson de Rezende Rocha.

Ewerton Almeida Silva. Identificação de Manipulações de Cópia-Colagem em Documentos Digitais. 2012. Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Anderson de Rezende Rocha.

Felipe dos Santos Pinto de Andrade. Combinação de Descritores Locais e Globais para Recuperação de Imagens e Vídeos por Conteúdo. 2012. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Ricardo da Silva Torres.

Filipe de Oliveira Costa. Atribuição de fonte em imagens provenientes de câmeras digitais. 2012. Instituto de Computação - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Anderson de Rezende Rocha.

Leonardo Garcia Tampelini. Técnicas heurísticas de escalonamento paralelo em workflow. 2012. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Jacques Wainer.

Renato Schattan Pereira Coelho. Simulação de multidões e planejamento probabilístico para otimização dos tempos de semáforos. 2012. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Siome Klein Goldenstein, Co-advisor: Jacques Wainer.

Rodrigo Carvalho Rezende. Técnicas e Algoritmos de Link Analysis na Geração de Medidas de Similaridade. 2012. Universidade Estadual de Campinas. Advisor: Siome Klein Goldenstein, Co-advisor: Ricardo da Silva Torres.

Ticiane Oniki Toffoli. Especificação de Bibliotecas Digitais de Objetos Complexos. 2012. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

2011

Antoine Barrault. Banknotes detection for visually impaired people. 2011. Faculté des Sciences et Techniques - Université de Limoges. Co-advisor: Anderson de Rezende Rocha.

Cristiane Aparecida Betta. O Impacto da Implantação da Sistematização da Assistência de Enfermagem Através de Instrumento Informatizado em Uma Unidade de Internação. 2011. Universidade Federal de São Paulo. Advisor: Jacques Wainer.

Eduardo Fernando Cianci Gomes. Sistema de Apoio a Decisão em Prescrição de Atividade Física. 2011. Universidade Federal de São Paulo. Advisor: Jacques Wainer.

Elizabeth Akemi Nishio. Elaboração de um Instrumento Informatizado de Classificação de Paciente para Alocação de Recursos Humanos da Enfermagem e Pacientes nas Unidades de Internação de um Hospital Gerenciado pela Organização Social da Saúde- SPDM. 2011. Universidade Federal de São Paulo. Advisor: Jacques Wainer.

Fernando Cesar Akune. Indexação Multimídia Escalável e Busca por Similaridade em Alta Dimensionalidade. 2011. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres, Co-advisor: Eduardo Alves do Valle Junior.

Fillipe Dias Moreira de Souza. Uma Avaliação sobre Características Espaço-temporais Baseadas em Invariantes de Cor para Reconhecimento de Ações. 2011. Universidade Federal de Minas Gerais, Fundação de Amparo à Pesquisa do Estado de Minas Gerais. Co-advisor: Eduardo Alves do Valle Junior.

Guilherme Moraes Armigliatto. Anotação Automática de Imagens Utilizando Regras de Associação. 2011. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Eduardo Alves do Valle Junior.

Guilherme Moraes Armigliatto. Anotação Automática de Imagens Utilizando Regras de Associação. 2011. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Ricardo da Silva Torres.

Lucas Moutinho Bueno. Análise de Descritores Locais de Imagens no Contexto de Detecção de Semi-réplicas. 2011. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres, Co-advisor: Eduardo Alves do Valle Junior.

Vanessa Cerávolo Gurgel Silva. Estudo do Tempo de Registro das Tarefas de Enfermagem Executadas em Unidade de Terapia Intensiva, de um Hospital Público, Antes e Após Implantação da Sistematização de Assistência de Enfermagem Informatizada. 2011. Universidade Federal de São Paulo. Advisor: Jacques Wainer.

2010

Amaury Bosso André. Verificação Formal de Workflows com Spin. 2010. Universidade Estadual de Campinas. Advisor: Jacques Wainer.

Fabio Augusto Faria. Uso de Técnicas de Aprendizagem para Classificação e Recuperação de Imagens. 2010. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

Glauber Costa. Um estudo sobre categorização de mídias através do método de Latent Dirichlet Allocation. 2010. Universidade Estadual de Campinas. Advisor: Siome Klein Goldenstein.

Priscila Saboia. Simulação de Multidões com Agentes Brownianos e Modelo de Forças Sociais Modificado. 2010. Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Siome Klein Goldenstein.

Ricardo Luís Zanetti Panaggio. Arcabouço Genérico Baseado em Técnicas de Agrupamento para Sistemas de Recomendação. 2010. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Ricardo da Silva Torres.

Rodrigo Tripodi Calumby. Recuperação Multimodal de Imagens com Realimentação de Relevância Baseada em Programação Genética. 2010. Universidade Estadual de Campinas, Conselho Nacional de Desenvolvimento Científico e Tecnológico. Advisor: Ricardo da Silva Torres.

Sheila Maricela Pinto Cáceres. Técnicas de Visualização para Sistemas de Recuperação de Imagens por Conteúdo. 2010. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

Tiago José de Carvalho. Aplicação de Técnicas de Visão Computacional e Aprendizado de Máquina para a Detecção de Exsudatos Duros em Imagens de Fundo de Olho. 2010. Universidade Estadual de Campinas. Advisor: Siome Klein Goldenstein.

2009

Fabiana Bellette Gil. Serviço Web para Anotação de Dados Geográficos Vetoriais e sua Aplicação em Sistemas de Informação de Biodiversidade. 2009. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

Fernando de Goes. Técnicas Espectrais para Processamento de Modelos Geométricos. 2009. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Siome Klein Goldenstein.

Jefersson Alex dos Santos. Reconhecimento Semi-Automático e Vetorização de Regiões em Imagens de Sensoriamento Remoto. 2009. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

Katia Cristina Lage dos Santos. Uma Abordagem Evolutiva para Recuperação de Imagens da Web. 2009. Universidade Federal de Minas Gerais. Co-advisor: Ricardo da Silva Torres.

Marcus Vinícius Benedito. Sistema Especialista para Diagnóstico de Algumas Doenças Epidemiológicas. 2009. Universidade Estadual de Campinas. Advisor: Jacques Wainer.

Otávio Augusto Bizetto Penatti. Estudo Comparativo de Descritores para Recuperação de Imagens por Conteúdo na Web. 2009. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Ricardo da Silva Torres.

Paulo Gurgel Pinheiro. Localização Multirrobô Cooperativa com Planejamento. 2009. Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Jacques Wainer.



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