

Reasoning for Complex Data (RECOD) Lab.

2009-2021 Report¹

Professors

- Prof. Dr. Anderson de Rezende Rocha (*Current Coordinator*)
- Prof. Dr. Eduardo Alves do Valle Jr.
- Prof. Dr. Jacques Wainer
- Prof. Dra. Sandra Eliza Fontes de Ávila

Former Professors

- Prof. Dr. Adín Ramírez Rivera
- Prof. Dr. Ricardo da Silva Torres
- Prof. Dr. Siome Klein Goldenstein

Summary

From 2009 to June 2021 RECOD has achieved:

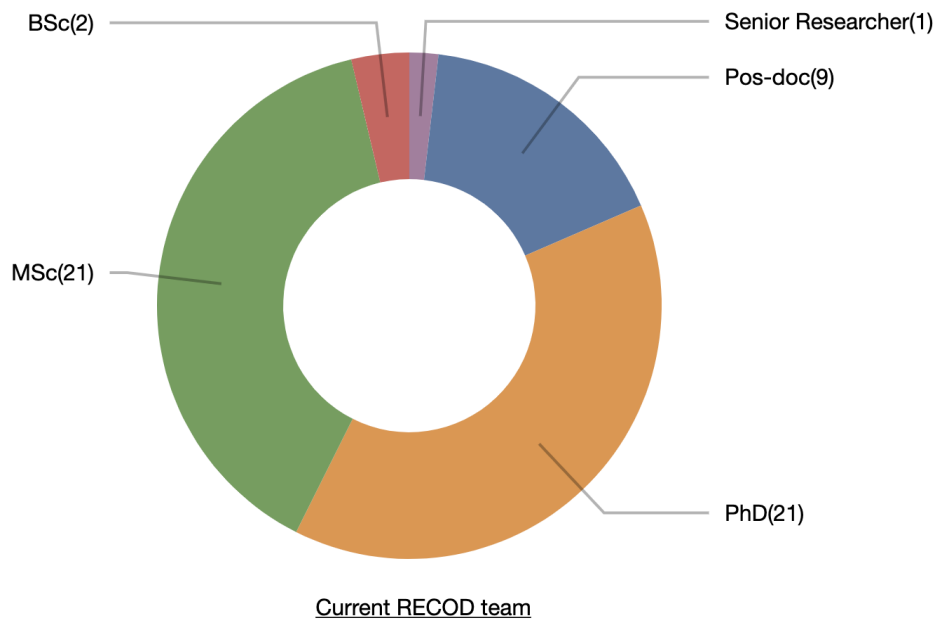
- 80 awards and distinctions;
- 237 articles in international journals (almost 20 a year);
- 305 articles in conferences (25 a year);
- 14 book chapters;
- 10 patents;
- 26 completed post-doc fellowships;
- 44 graduated Ph.D. students (~4 per year);
- 97 graduated M.Sc. students (~8 per year).

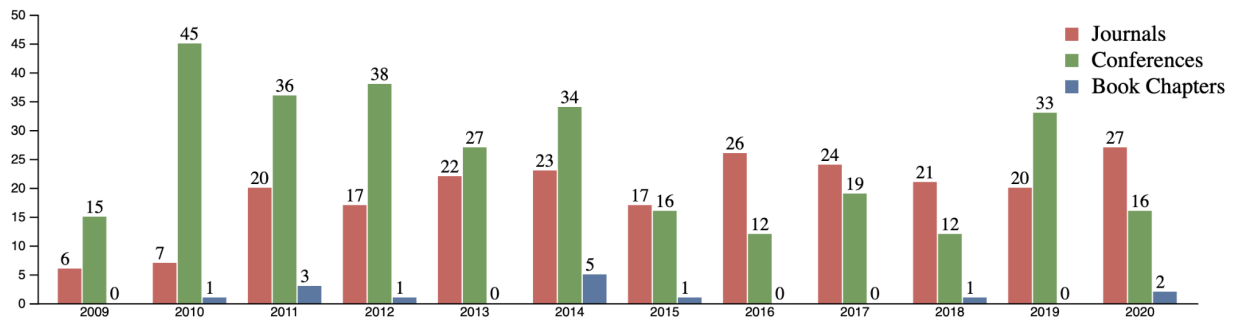
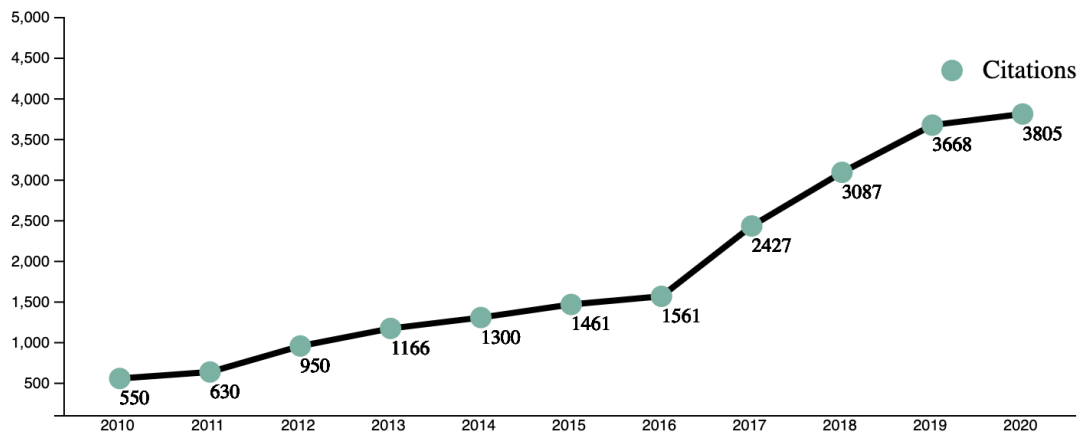
We have ongoing:

- 1 senior researcher
- 9 associated postdoc fellows;
- 21 Ph.D. students;
- 21 MSc. students;
- 02 B.Sc. students (undergraduate research — “Introduction to Science”).

¹ Updated until June 5th, 2021.

Since its inception, the impact of the lab. (measured by Google Scholar citations) is growing fast. In 2020, we got **~3,805** citations, and in the previous year, we got ~3,668 citations. Although there are many redundant citations due to the internal cooperations within the lab., the number is still impressive. In 2019, we got ~3668 citations, in 2018, ~3087 citations, in 2017, ~2427 citations, and in 2016, ~1561 citations. In 2015, we got ~1,461 citations, and in 2014, ~1,300 citations. In 2013, we collectively got 1,166 citations, and in 2012, 950 citations. In 2011, this number was 630, and in 2010, 550, respectively.





RECOD in numbers: Publications and citations

Senior researcher

1. Alexandre Ferreira.

Post-doc fellows

1. Aurea Soriano-Vargas. Supervisor: Anderson Rocha.
2. Didier Vega-Oliveros. Supervisor: Anderson Rocha.
3. Eduardo dos Santos Pereira. Supervisor: Anderson Rocha.
4. Manuel Castro Avila. Supervisor: Anderson Rocha.
5. Marcos Cirne. Supervisor: Anderson Rocha.
6. Mohammed Manzur Hossain. Supervisor: Anderson Rocha.
7. Pedro Ribeiro Mendes Júnior. Supervisor: Anderson Rocha.
8. Rafael de Oliveira Werneck. Supervisor: Anderson Rocha.
9. Víctor Eduardo Martínez Abaunza. Supervisor: Anderson Rocha.

Ph.D. students

1. Alceu Emanuel Bissoto. Supervisor: Sandra Eliza Fontes de Ávila
2. Amaury André. Supervisor: Jacques Wainer
3. Antônio Carlos Theóphilo Costa Júnior. Supervisor: Anderson Rocha
4. Bruno Malveira Peixoto. Supervisor: Anderson Rocha
5. Daniel Matte Freitas. Supervisor: Gerberth Adín Ramirez Rivera
6. Darwin Danilo Saire Pilco. Supervisor: Gerberth Adín Ramirez Rivera
7. Décio Gonçalves de Aguiar Neto. Supervisor: Jacques Wainer
8. Edson Riberto Bollis. Supervisor: Sandra Eliza Fontes de Ávila
9. Eduardo Seiti de Oliveira. Supervisor: Eduardo Valle
10. Elian Raquel Laura Riveros. Supervisor: Anderson Rocha
11. Flávia Érika Almeida Giló Azevedo. Supervisor: Anderson Rocha
12. Gabriel Capiteli Bertocco. Supervisor: Anderson Rocha
13. Geise Kelly da Silva Santos. Supervisor: Anderson Rocha
14. Jing Yang. Supervisor: Anderson Rocha
15. João Phillipe Cardenuto. Supervisor: Anderson Rocha
16. José Dorivaldo Nascimento Souza Júnior. Supervisor: Anderson Rocha
17. Juan Felipe Hernández Albarracín. Supervisor: Gerberth Adín Ramirez Rivera
18. Karina Olga Maizman Bogdan. Supervisor: Gerberth Adín Ramirez Rivera
19. Rafael Soares Padilha. Supervisor: Anderson Rocha
20. Stephane de Freitas Schwarz. Supervisor: Anderson Rocha
21. Soroor Salavati. Supervisor: Anderson Rocha

M.Sc. Students

1. Andressa Gabrielly Macedo Marçal. Supervisor: Sandra Eliza Fontes de Ávila
2. Augusto Cesar Silva Cruz. Supervisor: Gerberth Adín Ramirez Rivera.
3. Bruno César de Oliveira Souza. Supervisor: Gerberth Adín Ramirez Rivera.
4. Cicera Vanessa Marques Sampaio Sidrim. Supervisor: Sandra Eliza Fontes de Ávila
5. Edgar Kenji Tanaka. Supervisor: Jacques Wainer
6. Fábio Akahoshi Collado: Jacques Wainer
7. Giovanna Nascimento Antonietti. Supervisor: Sandra Eliza Fontes de Ávila
8. Giuliano Roberto Pinheiro. Supervisor: Anderson Rocha
9. Gustavo de Jesus Merli. Supervisor: Jacques Wainer
10. Juliano Siloto Assine. Supervisor: Eduardo Valle
11. Levy Gurgel Chaves. Supervisor: Sandra Eliza Fontes de Ávila
12. Paulo Júnio Reis Rodrigues. Supervisor: Sandra Eliza Fontes de Ávila
13. Pedro Henrique Vaz Valois. Supervisor: Sandra Eliza Fontes de Ávila
14. Raul Lima Alves. Supervisor: Jacques Wainer
15. Rodrigo Fumihito de Azevedo Kanehisa. Supervisor: Gerberth Adín Ramirez Rivera.
16. Rosa Yuliana Gabriela Paccotacya Yanque. Supervisor: Sandra Eliza Fontes de Ávila
17. Silvio Bento Garcia Junior. Supervisor: Jacques Wainer
18. Tito Barbosa Rezende. Supervisor: Sandra Eliza Fontes de Ávila
19. Thalles Santos Silva. Supervisor: Gerberth Adín Ramirez Rivera.
20. Thamiris Florindo Coelho. Supervisor: Sandra Eliza Fontes de Ávila
21. Thiago Resek Fabri dos Anjos. Supervisor: Anderson Rocha

B.Sc. Students (Undergraduate)

1. Marcela Medicina Ferreira. Supervisor: Sandra Eliza Fontes de Ávila
2. Gabriel Oliveira dos Santos. Supervisor: Sandra Eliza Fontes de Ávila

Awards

2020

1. Google Latin American Research Awards. Combate a notícias falsas por meio da atribuição de autoria e análise de filogenia. Anderson Rocha, Antônio Theóphilo.
2. Google Latin American Research Awards. Repensando a classificação automática do câncer de pele com aprendizado não-supervisionado de representação. Sandra Ávila, Alceu Bissoto.
3. Best Master Thesis Award, Workshop of Thesis and Dissertations at Conference on

Graphics, Patterns and Images (SIBGRAPI), Skin Lesion Analysis using Generative Adversarial Networks. Alceu Emanuel Bissoto.

4. 1º lugar no Concurso de Teses e Dissertações (CTD), Simpósio Brasileiro de Computação Aplicada à Saúde (SBCAS). Aluno: Alceu Bissoto, Análise de Lesões de Pele usando Redes Generativas Adversariais.
5. 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.
6. Honorable Mention Award, ISIC Skin Image Analysis Workshop at CVPR, Debiasing skin lesion datasets and models? Not so fast.

2019

1. Melhor Tese de Doutorado. (Estudante: Allan da Silva Pinto). Prêmio Capes de Tese.
2. Melhor Tese de Doutorado. (Estudante: Allan da Silva Pinto). Instituto de Computação, UNICAMP..
3. Melhor Tese de Doutorado. (Estudante: José Ramon Trindade Pires). Prêmio CTD da SBC.
4. Google Latin America Research Awards, Improving Skin Cancer Classification with Generative Adversarial Networks. Alceu Emanuel Bissoto, Sandra Ávila.
5. 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".
6. Honorable Mention (Runner-up Best Paper) for Debiasing Skin Lesion Datasets and Models? Not So Fast, International Skin Imaging Collaboration (Workshop / CVPR 2020).
7. 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

1. Eleição - Vice-Chair do IEEE Information Forensics and Security Technical Committee (Prof. Anderson Rocha), IEEE IFS-TC.
2. 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).
3. Google Latin America Research Awards, Improving Skin Cancer Classification with Generative Adversarial Networks". Alceu Emanuel Bissoto, Sandra Ávila.
4. Best Poster Award, International Educational Symposium of The Melanoma World Society, Generating High Quality Synthetic Skin Lesions for Boosting Automated Screening.
5. Best Paper Award, ISIC Skin Image Analysis Workshop at MICCAI, Data Augmentation

for Skin Lesion Analysis.

6. Prêmio Inventores Unicamp, categoria Tecnologia Licenciada, Agência de Inovação da Unicamp.
7. Mérito Científico, XXVI Congresso de Iniciação Científica da Unicamp. Aluna: Akari Ishikawa.
8. 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.
9. 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

1. 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).
2. Melhor Tese de Doutorado (Estudante: Daniel Henriques Moreira), Sociedade Brasileira de Computação (SBC).
3. Melhor Tese de Doutorado (Estudante: Anselmo Castelo Branco Ferreira), Instituto de Computação, Universidade Estadual de Campinas.
4. Prêmio INOVA de Iniciação à Inovação (Estudante: Gabriel Capiteli Bertocco), Inova/Unicamp.
5. 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).
6. 3º lugar no ISIC 2017: Skin Lesion Analysis Towards Melanoma Detection Part 3: Lesion Classification, IEEE International Symposium on Biomedical Imaging.
7. Menção Honrosa, 12ª Conferência Brasileira de Melanoma, Knowledge Transfer for Melanoma Screening with Deep Learning.
8. Google Latin America Research Awards 2017, Google. (Prof. Eduardo Alves do Valle Junior).
9. Ranked Top 25% PLOS ONE Tenth Anniversary Most Cited Articles, PLOS ONE Journal. (Prof. Eduardo Alves do Valle Junior).
10. Menção Honrosa, Trabalho "Utilizando Redes Complexas Para Análise De Jogos De Futebol", XVII Congresso Brasileiro de Biomecânica (Prof. Ricardo da Silva Torres).

2016

1. 2nd Best Paper Award (Student Paulo Vitorino), Workshop de Visão Computacional (WVC), 2016.
2. Best Poster Award (Student Guilherme Folego), Workshop de Visão Computacional

(WVC), 2016.

3. Esteemed Paper of 2015, "Mid-level Image Representations for Real-time Heart View Plane Classification of Echocardiograms", Elsevier Computers in Biology and Medicine, 2016.
4. Election - Member of the IFS-TC (Prof. Anderson Rocha), IEEE Information Forensics and Security Technical Committee, IEEE Signal Processing Society, 2016.
5. Two Google Research Awards for Latin America, 2016.
6. 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.
7. Unicamp Inventor Award 2016, Category "Licensed Technology", Agência de Inovação Inova Unicamp, 2016.
8. Tan Chin Tuan Fellowship (Prof. Anderson Rocha), Tan Chin Tuan Foundation (Singapore), 2016.
9. Top 10 Master's Dissertations (Student Alberto Arruda de Oliveira), Sociedade Brasileira de Computação (SBC), 2016.
10. 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

1. IEEE Senior Member (Prof. Anderson Rocha), IEEE, 2015.
2. 2nd Best Ph.D. Thesis of 2014 (Student Tiago José de Carvalho), Sociedade Brasileira de Computação (CTD-SBC), 2015.

2014

1. 3rd Best Master's Dissertation (Student José Ramon Trindade Pires), Sociedade Brasileira de Computação (SBC), 2014.
2. Best Student Paper Award (Student Ambra Melloni), European Workshop on Visual Information Processing (EUVIP), 2014.
3. Academic Excellence Awards (Prof. Anderson Rocha), Institute of Computing, Unicamp, 2014.
4. 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.
5. 2nd place - Violence Scene Detection MediaEval for Online Videos, MediaEval, 2014.
6. Best Undergraduate Research of 2013 (Student Flavia Pisani), Institute of Computing, Unicamp, 2014.
7. Best Ph.D. thesis (Student Tiago José de Carvalho), Conference on Graphics, Patterns and Images (SIBGRAPI), 2014.
8. Best Ph.D. thesis of 2013, "Semi-Automatic Classification of Remote Sensing Images"

(Student Jefersson Alex dos Santos), Institute of Computing, Unicamp, 2014.

9. 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

1. 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.
2. Member of the Brazilian Academy of Forensic Sciences (Prof. Anderson Rocha), Academia Brasileira de Ciências Forenses (ABCF), 2013.
3. First place - ICB 2013 Competition on face recognition in mobile environment using the MOBIO database, Intl. Conference on Biometrics (ICB), 2013.
4. 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.
5. 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.
6. 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

1. Best Student Paper Award (Student Filipe de O. Costa), Conference on Graphics, Patterns and Images (SIBGRAPI), 2012.
2. 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.
3. 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.
4. 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.
5. 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.

6. Academic Excellence Awards (Prof. Ricardo da Silva Torres), Institute of Computing, Unicamp, 2014.
7. INOVA Award, Category "Iniciação à Inovação" (Student Giuliano Roberto Pinheiro), INOVA/Unicamp, 2012.
8. 1st place - ScienceDirect Top 25 Most Downloaded Articles, 2012 Full Year, Elsevier, Journal of Visual Communication and Image Representation, 2012.
9. 2nd place - Image Retrieval, Subtask 1: Concept Annotation, ImageCLEF, 2012.
10. 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

1. Best paper award, "Encoding spatial arrangement of visual words", 16th Iberoamerican Congress on Pattern Recognition (CIARP), 2011.
2. Election - Affiliate Member of the ABC (Prof. Anderson Rocha), Brazilian Academy of Sciences (ABC), 2011.
3. Election - Member of the IFS-TC (Prof. Anderson Rocha), IEEE Information Forensics and Security Technical Committee, IEEE Signal Processing Society, 2011.
4. Best Master's Dissertation (Student Tiago Carvalho), Conference on Graphics, Patterns and Images (SIBGRAPI), 2011.
5. Best Ph.D. Thesis of 2010 (Anderson Rocha), CAPES Thesis Award, CAPES, 2011.
6. Microsoft Research Faculty Fellow (Prof. Anderson Rocha), Microsoft Research, 2011.
7. 2nd place - IJCB 2011 Competition on counter measures to 2D facial spoofing attacks, International Joint Conference on Biometrics (IJCB), 2011.

2010

1. Best Ph.D. Thesis (Anderson Rocha), Conference on Graphics, Patterns and Images (SIBGRAPI), 2010.
2. 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.
3. Best Ph.D. Thesis (Anderson Rocha), Institute of Computing, Unicamp, 2010.

Journal publications

2021

1. 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.

2. 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.
3. 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.
4. 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.
5. 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.
6. ROLLMANN, K.; SORIANO-VARGAS, A.; ALMEIDA, F.; DAVOLIO, A.; SCHIOZER, D. J.; & ROCHA, A. (2021). Convolutional Neural Network Formulation to Compare 4-D Seismic and Reservoir Simulation Models. *IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS: SYSTEMS*, p. 1 - 14, 2021.
7. SORIANO-VARGAS, A.; WERNECK, R.; MOURA, R.; MENDES JÚNIOR, P.; PRATES, R.; CASTRO, M.; GONÇALVES, M; HOSSAIN, M.; ZAMPIERI, M.; FERREIRA, A.; DAVÓLIO, A.; HAMANN, B.; SCHIOZER, D. J.; ROCHA, A. (2021). A visual analytics approach to anomaly detection in hydrocarbon reservoir time series data. *JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING*, p. 108988, 2021.

2020

1. 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.
2. 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.

3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. FADEL, S.; AND TORRES, R. "Neural relational inference for disaster multimedia retrieval," in *Multimedia Tools and Applications*, 79(35-36): 26735-26746, 2020.
11. 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.
12. 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.
13. 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.

14. 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.
15. 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 Paracoccidiodomycosis Diagnoses. mSystems, v. 5, p. 1-12, 2020.
16. 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.
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2015

1. 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.
2. Fernanda Alcântara Andaló. 2015. Instituto de Computação - Universidade Estadual de Campinas, Motorola Mobility. Anderson de Rezende Rocha.
3. 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.
4. 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

1. 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

1. 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.
2. 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.

3. Marina Atsumi Oikawa. Multimedia Phylogeny. 2013. Instituto de Computação - Universidade Estadual de Campinas, União Européia. Supervisor: Anderson de Rezende Rocha.
4. 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

1. 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

1. 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.

Ph.D.

2021

1. 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

1. Cristina Cavalcante. Learning-from-data Approaches to the History-Matching Problem. 2020. Instituto de Computação - Universidade Estadual de Campinas. Advisor: Anderson de Rezende Rocha.
2. 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.
3. Icaro Dourado. Graph-based rank aggregation. 2020. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

4. 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

1. 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.
2. Juliana Medeiros Destro. Cross-language ontology matching. 2019. Universidade Estadual de Campinas, . Co-advisor: Ricardo da Silva Torres.
3. 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.
4. 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

1. 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.
2. Bruna Alberton. Fenologia Remota Próxima: dos Padrões de Trocas Foliaves 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.
3. 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.
4. 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.
5. 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.
6. 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

1. 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.
2. 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

1. 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.
2. 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.
3. 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.
4. 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

1. 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

1. 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.
2. Lin Tzy Li. A Multimodal Framework for Geocoding Digital Objects. 2014. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.
3. 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

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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

1. 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.
2. 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.
3. 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.
4. 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.
5. Ivan Sendin. Representações de Incerteza no Cálculo de Estruturas de Proteínas. 2012. Universidade Estadual de Campinas. Advisor: Siome Klein Goldenstein.
6. 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

1. 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.
2. 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.
3. Nadia Puchalski Kozievitch. Objetos Complexos em Bibliotecas Digitais: Analisando o Gerenciamento de Componentes de Imagens. 2011. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

2010

1. 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

1. 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.
2. 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.
3. Rogerio 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.

Master

2020

1. Décio Gonçalves de Aguiar Neto. Processamento de Reatórios de Bugs Utilizando Redes Neurais Profundas. 2020. Dissertação (Mestrado em Ciência da Computacao) - Instituto de Computacao/UNICAMP, . Orientador: Jacques Wainer.
2. 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. Orientador: Sandra Eliza Fontes de Avila.
3. 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.
4. 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.
5. Marcos Vinícius Adão Teixeira. Evaluating Attention-Based Models for Violence Classification in Videos. 2020. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, . Orientador: Sandra Eliza Fontes de Avila.

2019

1. 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. Orientador: Sandra Eliza Fontes de Avila.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.

7. 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.
8. 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.
9. 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

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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

1. 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.
2. 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.

3. 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.
4. 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.
5. Giovani Frondana. Comparação de Regressores. 2017. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas. Advisor: Jacques Wainer.
6. 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.
7. 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.
8. Rafael Soares Padilha. Two-Tiered Facial Verification for Mobile Devices. 2017. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas. Advisor: Jacques Wainer.
9. 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

1. 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.
2. 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.
3. 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.
4. Karina Olga Bogdan. Multiple Tracklet Matching under Severe Occlusions. 2016. Universidade Estadual de Campinas. Advisor: Siome Klein Goldenstein.
5. 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.
6. 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

1. Agnaldo 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. Micael Cabrera Carvalho. Transfer Schemes for Deep Learning in Image Classification. 2015. Universidade Estadual de Campinas. Advisor: Alves do Valle Junior.
8. Michel Silva Fornaciali. Image Classification of Specific Datasets in Mobile Environments. 2015. Universidade Estadual de Campinas. Advisor: Eduardo Alves do Valle Junior.
9. Pablo Alejandro Fonseca Arroyo. Três tópicos em aprendizado de máquina. 2015. Universidade Estadual de Campinas. Advisor: Jacques Wainer.
10. 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.
11. 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

1. 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.

2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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

1. 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.
2. 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.
3. Fábio Kenji Masago. Odysseýs: Sistema para Análise de Documentos de Patentes. 2013. Universidade Estadual de Campinas. Advisor: Jacques Wainer.
4. 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.

5. 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.
6. 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.
7. 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.
8. 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

1. Emerson Muraro. Arcabouço para Anotação de Componentes de Imagem. 2012. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.

8. 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.
9. Ticiane Oniki Toffoli. Especificação de Bibliotecas Digitais de Objetos Complexos. 2012. Universidade Estadual de Campinas. Advisor: Ricardo da Silva Torres.

2011

1. Antoine Barrault. Banknotes detection for visually impaired people. 2011. Faculté des Sciences et Techniques - Université de Limoges. Co-advisor: Anderson de Rezende Rocha.
2. 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.
3. Eduardo Fernando Cianci Gomes. Sistema de Apoio a Decisão em Prescrição de Atividade Física. 2011. Universidade Federal de São Paulo. Advisor: Jacques Wainer.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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

1. Amaury Bosso André. Verificação Formal de Workflows com Spin. 2010. Universidade Estadual de Campinas. Advisor: Jacques Wainer.
2. 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.
3. Glauber Costa. Um estudo sobre categorização de mídias através do método de Latent Dirichlet Allocation. 2010. Universidade Estadual de Campinas. Advisor: Siome Klein Goldenstein.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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

1. 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.
2. 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.
3. 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.
4. 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.

5. Marcus Vinícius Benedito. Sistema Especialista para Diagnóstico de Algumas Doenças Epidemiológicas. 2009. Universidade Estadual de Campinas. Advisor: Jacques Wainer.
6. 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.
7. 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.

On-going Supervisions

Post-Doc

1. Aurea Soriano-Vargas. Shell-ml Desenvolvimento de Técnicas de Aprendizado de Máquina para Análise de Dados Complexos de Produção de um Campo do Pré-Sal. Supervisor: Anderson de Rezende Rocha. Started 2019. Universidade Estadual de Campinas. Supervisor: Anderson Rocha.
2. Didier Vega-Oliveros. DéjàVu: Feature-Space-Time Coherence from Heterogeneous Data for Media Integrity Analytics and Interpretation of Events. Started 2020. Universidade Estadual de Campinas. Supervisor: Anderson Rocha.
3. Eduardo dos Santos Pereira. Shell-ml Desenvolvimento de Técnicas de Aprendizado de Máquina para Análise de Dados Complexos de Produção de um Campo do Pré-Sal. Supervisor: Anderson de Rezende Rocha. Started 2019. Universidade Estadual de Campinas. Supervisor: Anderson Rocha.
4. Manuel Castro Avila. Shell-ml Desenvolvimento de Técnicas de Aprendizado de Máquina para Análise de Dados Complexos de Produção de um Campo do Pré-Sal. Supervisor: Anderson de Rezende Rocha. Started 2019. Universidade Estadual de Campinas. Supervisor: Anderson Rocha.
5. Marcos Cirne. Shell4D: Integration of Reservoir Simulation and 4D Seismic data. Started 2019. Supervisor: Anderson Rocha.
6. Mohammed Manzur Hossain. Shell-ml Desenvolvimento de Técnicas de Aprendizado de Máquina para Análise de Dados Complexos de Produção de um Campo do Pré-Sal. Supervisor: Anderson de Rezende Rocha. Started 2019. Universidade Estadual de Campinas. Supervisor: Anderson Rocha.
7. Pedro Ribeiro Mendes Júnior. Shell-ml Desenvolvimento de Técnicas de Aprendizado de Máquina para Análise de Dados Complexos de Produção de um Campo do Pré-Sal. Supervisor: Anderson de Rezende Rocha. Started 2019. Universidade Estadual de Campinas. Supervisor: Anderson Rocha.
8. Rafael de Oliveira Werneck. Shell-ml Desenvolvimento de Técnicas de Aprendizado de Máquina para Análise de Dados Complexos de Produção de um Campo do Pré-Sal. Supervisor: Anderson de Rezende Rocha. Started 2019. Universidade Estadual de

Campinas. Supervisor: Anderson Rocha.

9. Víctor Eduardo Martínez Abaunza. Aprendizado de Máquina e técnicas orientadas a dados para descoberta de óleo no contexto de controle e gerenciamento de reservatórios. Supervisor: Anderson Rocha.

Ph.D.

1. Alceu Emanuel Bissoto. Generating unlimited skin lesion images with generative adversarial networks. Started: 2019. Instituto de Computação - Universidade Estadual de Campinas. Advisor: Sandra Eliza Fontes de Ávila.
2. Amaury Bosso André. Aplicacoes de aprendizado de maquina em diagnostico de maquinas. Início: 2016. Started 2016. Universidade Estadual de Campinas. Advisor: Jacques Wainer.
3. Antônio Carlos Theóphilo Costa Júnior. Twitter authorship. Stared 2017. Instituto de Computação - Universidade Estadual de Campinas. Advisor: Anderson de Rezende Rocha.
4. Bruno Malveira Peixoto. Violence Detection in Images and Videos. Started 2016. Instituto de Computação - Universidade Estadual de Campinas. Advisor: Anderson de Rezende Rocha.
5. Daniel Matte Freitas. Dynamic Activity Recognition with Deep Neural Networks. Início: 2016. Tese (Doutorado em Ciência da Computação) - Universidade Estadual de Campinas. Advisor: Adín Rivera.
6. Darwin Saire. Semantic Segmentation on Videos through Deep Neural Networks. Started 2017. Tese (Doutorado em Ciência da Computação) - Universidade Estadual de Campinas, Fundação de Amparo à Pesquisa do Estado de São Paulo. Advisor: Adín Ramirez Rivera.
7. Décio Gonçalves de Aguiar Neto. Started: 2020. Instituto de Computação - Universidade Estadual de Campinas. Advisor: Jacques Wainer
8. Edson Riberto Bollis. Detection of citrus pests and diseases using mobile deep neural networks. Started 2018. Tese (Doutorado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Sandra Eliza Fontes de Ávila.
9. Eduardo Seiti de Oliveira. Deep-Learning in Proteomics with Mass-Spectrometry. Início: 2018. Universidade Estadual de Campinas. Advisor: Eduardo Valle
10. Elian Raquel Laura Riveros. Started: 2021. Universidade Estadual de Campinas. Advisor: Anderson Rocha
11. Flávia Érika Almeida Giló Azevedo. Started: 2021. Universidade Estadual de Campinas. Advisor: Anderson Rocha

12. Gabriel Capiteli Bertocco. Mining Persons, Objects and Places of Interest. Início: 2019. Instituto de Computação - Universidade Estadual de Campinas. Advisor: Anderson Rocha
13. Geise Kelly da Silva Santos. Pattern Analysis and Reasoning for Motion Sensors Data. Started: 2017. Instituto de Computação - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Anderson de Rezende Rocha.
14. Jing Yang. Event Reconstruction from Heterogeneous Visual Data. Started: 2019. Instituto de Computação - Universidade Estadual de Campinas. Advisor: Anderson Rocha
15. João Phillipe Cardenuto. Detecting forgeries in scientific images. Started: 2020. Advisor: Anderson Rocha
16. José Dorivaldo Nascimento Souza Júnior. Event filtering: determining pieces of evidence pertaining to a given event. Started: 2020. Advisor: Anderson Rocha
17. Juan Hernandez. Video-to-Video Dynamics Transfer with Deep Neural Networks. Started 2017. Tese (Doutorado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Adín Ramirez Rivera.
18. Karina Olga Bogdan. Tracklet matching in collision cases for multiple object tracking. Started 2015. Universidade Estadual de Campinas. Advisor: Adín Rivera.
19. Rafael Soares Padilha. Started: 2017. Instituto de Computação - Universidade Estadual de Campinas, Motorola Mobility. Advisor: Anderson Rocha.
20. Stephane de Freitas Schwarz. Started: 2021. Advisor: Anderson Rocha
21. Soroor Salavati. Rock-type classification in pre-salt fields. Started: 2020. Advisor: Anderson Rocha

Masters

1. Andressa Gabrielly Macedo Marçal. Análise de vieses em modelos de aprendizado profundo para prognóstico de doenças respiratórias. Started: 2019. Universidade Estadual de Campinas. Advisor: Sandra Eliza Fontes de Ávila
2. Augusto Cesar Silva Cruz. Started 2020. Advisor: Gerberth Adín Ramirez Rivera.
3. Bruno César de Oliveira Souza. Started 2021. Advisor: Gerberth Adín Ramirez Rivera.
4. Cícera Vanessa Marques Sampaio Sidrim. AutoML para Detecção de Falhas em Isoladores de Redes de Energia Elétrica. Início: 2019. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Sandra Eliza Fontes de Ávila
5. Edgar Kenji Tanaka. Started: 2020. Advisor: Jacques Wainer
6. Fábio Akahoshi Collado. Started 2020. Advisor: Jacques Wainer
7. Giovanna Nascimento Antonietti. Análise de métodos de interpretabilidade de redes neurais profundas para a classificação de Elsagate. Início: 2019. Dissertação (Mestrado em Ciência da Computação) - Universidade Estadual de Campinas, Coordenação de

- Aperfeiçoamento de Pessoal de Nível Superior. Advisor: Sandra Eliza Fontes de Ávila
8. Giuliano Roberto Pinheiro. Temporal synchronization of videos for event detection. Started 2018. Instituto de Computação - Universidade Estadual de Campinas. Advisor: Anderson Rocha
 9. Gustavo de Jesus Merli. Started: 2020. Advisor: Jacques Wainer
 10. Juliano Siloto Assine. Dynamic Allocation of Deep Learning Processing for Edge Computing. Started: 2019. Advisor: Eduardo Valle
 11. Levy Gurgel Chaves. Analyzing skin lesions through the lens of self-supervision. Started: 2020. Advisor: Sandra Eliza Fontes de Ávila
 12. Paulo Júnio Reis Rodrigues. Domain adaptation for skin cancer classification. Started: 2021. Advisor: Sandra Eliza Fontes de Ávila
 13. Pedro Henrique Vaz Valois. Leveraging self-supervised learning to classify CSAM. Início: 2021. Advisor: Sandra Eliza Fontes de Ávila
 14. Raul Lima Alves. Started: 2020. Advisor: Jacques Wainer
 15. Rodrigo Fumihito de Azevedo Kanehisa. Semantic Segmentation in Images with Variational Methods. Started: 2019. Advisor: Gerberth Adín Ramirez Rivera.
 16. Rosa Yuliana Gabriela Paccotacya Yanque. Explainable AI in Medical Image Analysis. Started: 2020. Advisor: Sandra Eliza Fontes de Ávila
 17. Silvio Bento Garcia Junior. Started: 2020. Advosor: Jacques Wainer
 18. Tito Barbosa Rezende. Calculadora de risco cardiovascular utilizando redes neurais profundas em dados tabulares. Started: 2020. Advisor: Sandra Eliza Fontes de Ávila
 19. Thalles Santos Silva. Representation Learning through Metric Learning. Started: 2020. Advisor: Gerberth Adín Ramirez Rivera.
 20. Thamiris Florindo Coelho. Few-shot image classification for CSAM. Started: 2021. Advisor: Sandra Eliza Fontes de Ávila
 21. Thiago Resek Fabri dos Anjos. Ground-to-aerial image matching. Started: 2020. Advisor: Anderson Rocha

On-going Research Projects

1. Learning Representations through Deep Generative Models on Video. Started 2020. Coordinator: Adín Ramirez Rivera. Member: Anderson de Rezende Rocha.
2. Gerenciamento de Saúde Populacional Baseada em Inteligência Artificial. Started 2020. Projeto certificado pela empresa CLARITY HEALTHCARE DESENVOLVIMENTO DE SOFTWARE LTD. Coordinator: Sandra Eliza Fontes de Ávila
3. Discover: A Data-driven Integrated Approach for Semantic Inconsistencies Verification (DARPA Semafor). Started 2020. Financial Support: Defense Advanced Research Projects Agency. Member: Anderson de Rezende Rocha.
4. Shell-ML: Machine Learning for Analysis of Complex Production Data in a pre-salt carbonate field. Started 2019. Coordinator: Anderson de Rezende Rocha.
5. Engineering Research Centre in Reservoir and Production Management (ERC/Fapesp/Equinor). Started 2019. Coordinator: Anderson de Rezende Rocha.

6. CCEC/CEPID Centro para Computação em Engenharia e Ciências. Started 2019. Financial Support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Member: Sandra Eliza Fontes de Ávila.
7. Shell4D: Integration of Reservoir Simulation and 4D Seismic data. Started 2018. Member: Anderson de Rezende Rocha.
8. Metodologias para análise de vídeos baseadas em redes neurais. Started 2018. Coordinator: Adín Ramirez Rivera.
9. DéjàVu: Feature-Space-Time Coherence from Heterogeneous Data for Media Integrity Analytics and Interpretation of Events. Started 2017. Financial Support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Coordinator: Anderson de Rezende Rocha. Members: Adin Ramirez Rivera, Eduardo Alves do Valle Junior, Jacques Wainer, Sandra Eliza Fontes de Ávila.
10. Communications and processing of big data in cloud and fog computing. Started 2017. Member: Anderson de Rezende Rocha.
11. Triagem Automática de Doenças para o Mundo Real. Started 2017. Financial Support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Coordinator: Eduardo Alves do Valle Junior. Member: Sandra Eliza Fontes de Ávila.
12. Statistiques rObustEs pour l'apprentissage Léger. Started 2016. Financial support: Agence Nationale de la Recherche. Member: Anderson de Rezende Rocha.
13. MediFor: Media Forensics Integrity Analytics. Started 2016. Financial support: Defense Advanced Research Projects Agency. Coordinator: Anderson de Rezende Rocha.
14. BioLive: Multi-feature and Open-Set Authentication Techniques for Mobile Devices. Started 2015. Financial support: Motorola Mobility. Coordinator: Anderson de Rezende Rocha. Members: Jacques Wainer, Ricardo da Silva Torres.
15. DeepEyes: Visual Computing and Machine Intelligence Techniques for Digital Forensics and Electronic Surveillance. Started 2015. Financial support: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Coordinator: Anderson de Rezende Rocha. Members: Siome Klein Goldenstein, Jacques Wainer, Eduardo Alves do Valle Jr., Ricardo da Silva Torres.
16. The secret of playing football: Brazil versus the Netherlands. Started 2017. Financial Support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Coordinator: Ricardo da Silva Torres.
17. Comunicação e processamento de big data em nuvens e névoas computacionais Started 2017. Financial Support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Coordinator: Ricardo da Silva Torres.

Concluded Research Projects

2020

1. CrowdPet: identificação automática de animais em imagens. 2018-2020. Financial support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Member: Anderson Rocha.
2. Visão Computacional para Diagnóstico Assistido por Computador. 2017-2020. Financial Support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Coordinator: Eduardo Alves do Valle Junior. Member: Sandra Eliza Fontes de Ávila.
3. Sensitive Media Analysis through Deep Learning Architectures. 2018-2020. Financial Support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Coordinator: Sandra Eliza Fontes de Ávila. Member: Anderson Rocha.
4. Triagem Automática de Doenças para o Mundo Real. 2019-2020. Financial Support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Coordinator: Eduardo Alves do Valle Junior.
5. Characterizing and predicting biomass production in sugarcane and eucalyptus plantations in Brazil. 2016-2020. Coordinator: Ricardo da Silva Torres.

2019

1. Mineração de dados em logs de telefones móveis. 2016-2019. Financial support: Motorola Mobility. Coordinator: Jacques Wainer. Members: Eduardo Alves do Valle Junior, Siome Klein Goldenstein.
2. Development of Recurrent Convolutional Neural Network Architectures for Facial Expression Recognition. 2017-2019. Financial Support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Coordinator: Anderson de Rezende Rocha. Member: Adin Ramirez Rivera.
3. IDENTITY: Computer Vision Enabled Multimedia Forensics and People Identification. 2016-2019. Financial support: European Union (H2020). Member: Anderson de Rezende Rocha.
4. Combining new technologies to monitor Phenology from leaves to ecosystems. 2013-2019. Member: Ricardo da Silva Torres.
5. Algoritmos para Detecção e Reconhecimento de Texto Multilíngue. 2018-2019. Financial support: Samsung Eletrônica da Amazônia. Coordinator: Ricardo da Silva Torres.

2018

1. Development of Recurrent Convolutional Neural Network Architectures for Facial Expression Recognition. 2017-2019. Financial Support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Coordinator: Gerberth Adín Ramírez Rivera. Members: Anderson de Rezende Rocha, Ricardo da Silva Torres.
2. Fighting Diabetic Retinopathy and Alzheimer's Disease in the 21st Century: Leveraging Data-Driven Techniques for More Principled Decisions. 2017-2018. Financial Support: NVidia Inc. Coordinator: Anderson de Rezende Rocha.

3. CONAIM-Bot: um modelo cognitivo baseado em atenção para robôs humanoides. 2017-2018. Financial Support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Members: Anderson de Rezende Rocha.
4. Fighting Diabetic Retinopathy and Alzheimer's Disease in the 21st Century: Leveraging Data-Driven Techniques for More Principled Decisions. 2017-2018. Financial Support: NVidia Inc. Coordinator: Anderson de Rezende Rocha.
5. Leveraging Data-Driven Techniques for Screening of Diabetic Retinopathy and Alzheimer's Disease. 2016-2018. Financial support: Microsoft Research. Coordinator: Anderson de Rezende Rocha.
6. BioLive: Multi-feature and Open-Set Authentication Techniques for Mobile Devices. 2015-2018. Financial Support: Motorola Mobility. Coordinator: Anderson de Rezende Rocha. Members: Jacques Wainer, Ricardo da Silva Torres.
7. Managing Large-Scale Complex Data Time Series Collections in E-Science Applications. 2017-2018. Financial Support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Coordinator: Ricardo da Silva Torres.
8. Towards an understanding of tipping points within tropical South American biomes. 2013-2018. Financial support: Instituto Virtual FAPESP-Microsoft Research. Coordinator: Ricardo da Silva Torres.

2017

1. CrowdPet: Visão computacional aplicada à identificação de animais perdidos. 2017 (Fev-Out). Financial support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Member: Eduardo Alves do Valle Junior.
2. Reliable Automated Melanoma Screening for the Real World. 2016-2017. Financial support: Google. Coordinator: Eduardo Alves do Valle Junior.
3. Infraestrutura para Recuperação de Informação Multimídia. 2015-2017. Financial support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Coordinator: Eduardo Alves do Valle Junior.
4. DéjàVu: Social Media Forensics for Interpreting Criminal Events. 2016-2017. Financial support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Coordinator: Anderson de Rezende Rocha.
5. Open-set Human Activity Recognition and Assessment}. International Visiting Scholar Program. 2016-2016. Coordinator: Anderson de Rezende Rocha.
6. Integração de computação heterogênea e computação na nuvem para solução de problemas de engenharia e ciência. 2014-2017. Financial Support: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Member: Ricardo da Silva Torres.

2016

1. SpotMe: Design and Development of Object Recognition and Data Fusion Techniques for Mobile and Wearable Devices. 2015-2016. Financial Support: LG Electronics do Brasil. Coordinator: Anderson de Rezende Rocha. Members: Siome Klein Goldenstein, Ricardo da Silva Torres.
2. SmartID: Smart and Continuous Authentication Techniques for Mobile Devices. 2015-2016. Financial support: LG Electronics do Brasil. Coordinator: Anderson de Rezende Rocha. Members: Siome Klein Goldenstein, Eduardo Alves do Valle Jr.
3. Sensitive Media Analysis. 2013-2016. Financial support: Samsung Eletrônica da Amazônia. Coordinator: Anderson de Rezende Rocha. Members: Siome Klein Goldenstein, Eduardo Alves do Valle Jr.
4. Anotação de Imagem em Grandes Bases de Dados. 2013-2016. Members: Anderson de Rezende Rocha, Ricardo da Silva Torres.
5. Técnicas de Computação Visual e Inteligência de Máquina para Problemas Forenses, de Segurança Digital e de Vigilância Eletrônica. 2013-2016. Financial support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Coordinator: Anderson de Rezende Rocha. Members: Jacques Wainer, Eduardo Alves do Valle Jr., Siome Klein Goldenstein, Ricardo da Silva Torres.
6. Técnicas de Computação Visual, Análise de Padrões e Inteligência de Máquina para Computação Forense Digital. 2013-2016. Financial support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Coordinator: Anderson de Rezende Rocha.
7. ExaMind: Busca, Classificação e Visualização de Dados Complexos em Grande Escala Utilizando Processamento de Alto Desempenho. 2012-2016. Financial support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Coordinator: Ricardo da Silva Torres. Members: Anderson de Rezende Rocha, Siome Klein Goldenstein, Jacques Wainer, Eduardo Alves do Valle Jr.
8. Low-Power Visual AOP Sensors. 2015-2016. Financial support: LG Electronics do Brasil. Coordinator: Siome Klein Goldenstein. Member: Ricardo da Silva Torres.
9. Mineração Não-supervisionada de Conteúdo Multimídia - MAXIMUM. Started 2014. Financial support: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Members: Ricardo da Silva Torres, Eduardo Alves do Valle Junior.

2015

1. Projeto de Cooperação Internacional CAPES/COFECUB 592/08/10. 2008-2015. Financial support: COFECUB, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Members: Eduardo Alves do Valle Junior, Ricardo da Silva Torres.
2. Recuperação de Informação em Grandes Bases de Dados de Imagens e Vídeos. 2012-2015. Financial support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Member: Eduardo Alves do Valle Junior.
3. Medical Image Classification for Computer-Aided Diagnosis with Deep Learning and Jumbo Vectors. 2014-2015. Financial support: Microsoft Research. Coordinator: Eduardo Alves do Valle Junior.
4. Cloud-based Computer Vision for Computer-Aided Diagnosis. 2014-2015. Financial

support: Amazon Web Services. Coordinator: Eduardo Alves do Valle Junior.

2014

1. Pattern recognition and classification by feature engineering, *-fusion, open set recognition and meta-recognition. 2012-2014. Financial support: Samsung Eletrônica da Amazônia. Coordinator: Anderson de Rezende Rocha. Members: Ricardo da Silva Torres.
2. Reverse Engineering of Audio-Visual Content Data InCo Extension (REWIND). 2012-2014. Financial support: European Union. Coordinator: Anderson de Rezende Rocha. Member: Siome Klein Goldenstein.
3. Visão para o Cego: Traduzindo Conceitos Visuais 3D em Informações 3D de Áudio. 2012-2014. Financial support: Instituto Microsoft Fapesp. Coordinator: Siome Klein Goldenstein. Member: Anderson de Rezende Rocha.
4. Computação Forense e Criminalística de Documentos: Coleta, Organização, Classificação e Análise de Evidências. 2010-2014. Financial support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Coordinator: Anderson de Rezende Rocha. Members: Siome Klein Goldenstein, Ricardo da Silva Torres, Eduardo Alves do Valle Jr.
5. Content-Based Image Retrieval (CBIR) on APU Clouds. 2012-2014. Financial support: Advanced Micro Devices. Member: Ricardo da Silva Torres.

2013

1. IEEE Information Forensics and Technical Committee Image Forgery Detection Challenge. 2012-2013. Financial support: IEEE Signal Processing Society. Coordinator: Anderson de Rezende Rocha.
2. e-phenology: The application of new technologies to monitor and track climate changes in the tropics. 2011-2013. Financial support: Instituto Virtual FAPESP-Microsoft Research. Member: Ricardo da Silva Torres.
3. Métodos de Aproximação para Computação Visual. 2008-2013. Financial support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Members: Ricardo da Silva Torres, Siome Klein Goldenstein.
4. Exploration of alternatives for venue classification systems. 2013-2013. Financial support: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior. Coordinator: Jacques Wainer.

2012

1. Classificação e Busca em Grande Escala Para Dados Complexos. 2010-2012. Financial support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Coordinator: Ricardo da Silva Torres. Members: Anderson de Rezende Rocha, Siome Klein Goldenstein, Jacques Wainer, Eduardo Alves do Valle Jr.

2. Accelerating content-based image retrieval (CBIR) systems with GPUs and APUs. 2011-2012. Financial support: Advanced Micro Devices. Member: Ricardo da Silva Torres.
3. Busca e Classificação de Imagens com Combinação de Múltiplas Características. 2009-2012. Financial support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Member: Ricardo da Silva Torres.

2011

1. Triagem Automática de Retinoplastias Diabéticas: Tecnologia da Informação Contra a Cegueira Prevenível. 2009-2011. Financial support: Instituto Microsoft Fapesp. Coordinator: Jacques Wainer. Members: Anderson de Rezende Rocha, Siome Klein Goldenstein.
2. ARPIs: Aprendizado e Reconhecimento de Padrões em Imagens por Florestas de Caminhos Ótimos. 2009-2011. Member: Ricardo da Silva Torres.
3. Recuperação de Informação Semântica em Grandes Bases de Vídeo. 2009-2011. Financial support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Member: Eduardo Alves do Valle Junior.
4. Indexação de Dados Multimídia em Alta Dimensionalidade: Aplicação à Busca em Bases de Imagens e Vídeos. 2009-2011. Financial support: Fundação de Amparo à Pesquisa do Estado de São Paulo. Coordinator: Ricardo da Silva Torres. Member: Eduardo Alves do Valle Junior.

2010

1. Bio-CORE - Biodiversity and COmputing REsearch. 2007-2010. Member: Ricardo da Silva Torres.
2. Métodos de Aproximação para Computação Visual. 2007-2010. Members: Ricardo da Silva Torres, Siome Klein Goldenstein.
3. eFARMS - A two-way road into the networked world for small farms. 2007-2010. Member: Ricardo da Silva Torres.

2009

1. Gerenciamento na Web de Bancos de Dados de Imagens de Satélite para Monitoramento Agro-ambiental. 2007-2009. Financial support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Member: Ricardo da Silva Torres.
2. Programação Genética aplicada à Recuperação de Imagens por Conteúdo. 2006-2009. Financial support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Coordinator: Ricardo da Silva Torres.
3. Recuperação de Informação (Imagens e Vídeos) Visual. 2007-2009. Financial support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Member: Eduardo Alves do Valle Junior.

4. Sistemas Complexos por Coletâneas de Partículas em Multidões e Linguagem. 2007-2009. Financial support: Conselho Nacional de Desenvolvimento Científico e Tecnológico. Coordinator: Siome Klein Goldenstein.
5. Harpia - Análise de Risco no Processo Aduaneiro. 2005-2009. Financial support: Secretaria da Receita Federal. Coordinator: Siome Klein Goldenstein. Member: Jacques Wainer.