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Current position

2019–2020 Postdoctoral researcher
Reasoning for Complex Data (RECOD) lab
Institute of Computing
University of Campinas

Areas of specialization

Computer Science • Machine Learning • Open-Set Recognition • Digital Forensics

Education

2014–2018 PhD in Computer Science, University of Campinas (Unicamp), Brazil
2012–2014 MSc in Computer Science, University of Campinas (Unicamp), Brazil
2008–2012 BSc in Computer Science, Federal University of Ouro Preto (UFOP), Brazil

Complementary Education

2018–2019 Postdoctoral researcher (9 months)
Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB), Politecnico di Milano
With Prof. Paolo Bestagini and Prof. Stefano Tubaro
2017–2018 Deep Learning Specialization (68 hours)
by deeplearning.ai, online on Coursera
2016–2017 Doctoral internship as a researcher assistant (1 year)
University of Colorado Colorado Springs (UCCS)
With Prof. Terrance Boulton
2011 Short term course in Applied Functional Programming in Haskell (40 hours)
Utrecht University, Netherlands

Languages

(Elementary • Basic • Intermediary • Advanced • Fluent or Native)

Portuguese	Native				
English	Understanding Fluent	• Speaking Advanced	• Writing Advanced	• Reading Advanced	
Spanish	Understanding Intermediary	• Speaking Intermediary	• Writing Intermediary	• Reading Advanced	
Italian	Understanding Intermediary	• Speaking Intermediary	• Writing Basic	• Reading Intermediary	

Grants, honors & awards

- 2016 [Prêmio Inventores Unicamp](#) • Reitoria da Unicamp e Agência de Inovação Inova Unicamp
2015 [Honored Papers 2015](#) • Elsevier Computers in Biology and Medicine

Publications

JOURNAL ARTICLES

- 2019 **Mendes Júnior, Pedro**; Bondi, Luca; Bestagini, Paolo; Tubaro, Stefano; Rocha, Anderson, “[An in-depth study on open-set camera model identification](#)”, *IEEE Access*. 7:180713–180726.
- 2018 Neira, Manuel; **Mendes Júnior, Pedro**; Rocha, Anderson; Torres, Ricardo, “[Data-fusion techniques for open-set recognition problems](#)”, *IEEE Access*. 6:21242–21265.
- 2018 Werneck, Rafael; de Almeida, Waldir; Stein, Bernardo; Pazinato, Daniel; **Mendes Júnior, Pedro**; Penatti, Otávio; Rocha, Anderson; Torres, Ricardo, “[Kuaa: A unified framework for design, deployment, execution, and recommendation of machine learning experiments](#)”, *Elsevier Future Generation Computer Systems*. 78(1):59–76.
- 2017 **Mendes Júnior, Pedro**; Souza, Roberto; Werneck, Rafael; Stein, Bernardo; Pazinato, Daniel; de Almeida, Waldir; Penatti, Otávio; Torres, Ricardo; Rocha, Anderson, “[Nearest neighbors distance ratio open-set classifier](#)”, *Springer Machine Learning*. 106(3):359–386.
- 2016 Pazinato, Daniel; Stein, Bernardo; de Almeida, Waldir; Werneck, Rafael; **Mendes Júnior, Pedro**; Penatti, Otávio; Torres, Ricardo; Menezes, Fabio; Rocha, Anderson, “[Pixel-level tissue classification for ultrasound images](#)”, *IEEE Journal of Biomedical and Health Informatics*. 20(1):256–267.
- 2015 Penatti, Otávio; Werneck, Rafael; de Almeida, Waldir; Stein, Bernardo; Pazinato, Daniel; **Mendes Júnior, Pedro**; Torres, Ricardo; Rocha, Anderson, “[Mid-level image representations for real-time heart view plane classification of echocardiograms](#)”, *Elsevier Computers in Biology and Medicine*. 66:66–81.

PROCEEDINGS

- 2019 **Mendes Júnior, Pedro**; Bondi, Luca; Bestagini, Paolo; Rocha, Anderson; Tubaro, Stefano (2019), “[A PRNU-based method to expose video device compositions in open-set setups](#)”, In: *IEEE Intl. Conference on Image Processing*. pp. 96–100.
- 2015 Li, Lin; Muñoz, Javier; Almeida, Jurandy; Calumby, Rodrigo; Penatti, Otávio; Dourado, Ícaro; Nogueira, Keiller; **Mendes Júnior, Pedro**; Pereira, Luís; Pedronette, Daniel; dos Santos, Jefersson; Gonçalves, Marcos; Torres, Ricardo (2015), “[RECOD @ Placing Task of MediaEval 2015](#)”, In: *MediaEval 2015 Workshop*. pp. 1–3.
- 2014 Li, Lin; Penatti, Otávio; Almeida, Jurandy; Chiachia, Giovanni; Calumby, Rodrigo; **Mendes Júnior, Pedro**; Pedronette, Daniel; Torres, Ricardo (2014), “[Multimedia geocoding: The RECOD 2014 approach](#)”, In: *MediaEval 2014 Workshop*. pp. 1–2.
- 2011 **Mendes Júnior, Pedro**; Neves, José Maria; Taveres, Andrea; Menotti, David (2011), “[Towards an automatic vehicle access control system: License plate location](#)”, In: *IEEE Intl. Conference on Systems, Man, and Cybernetics*. pp. 2916–2921.
- 2010 **Mendes Júnior, Pedro**; Neves, José Maria; Menotti, David (2010), “[Em rumo a um sistema automático](#)”

de controle de acesso de veículos automotivos: Localização de placas de identificação”, In: *WUW Workshop of Undergraduate Work, XXIII Conference on Graphics, Patterns and Image*.

PREPRINT

- 2019 **Mendes Júnior, Pedro**; Boulton, Terrance; Wainer, Jacques; Rocha, Anderson (2019), “[Specialized Support Vector Machines for open-set recognition](#)”, *arXiv:1606.03802*.

PATENTS

- 2014 **Mendes Júnior, Pedro**; Souza, Roberto; Werneck, Rafael; Stein, Bernardo; Pazinato, Daniel; de Almeida, Waldir; Penatti, Otávio; Torres, Ricardo; Rocha, Anderson, “[Method for Multiclass Classification in Open-set Scenarios and uses thereof](#)”, *United States Patent and Trademark Office (USPTO)*. [US20160092790A1](#), [US10133988B2](#). Filing date: 11/04/2014. Publication date: 03/31/2016. Issue date: 11/20/2018.
- 2014 **Mendes Júnior, Pedro**; Souza, Roberto; Werneck, Rafael; Stein, Bernardo; Pazinato, Daniel; de Almeida, Waldir; Penatti, Otávio; Torres, Ricardo; Rocha, Anderson, “[Método para classificação multiclasse em cenários abertos e usos do mesmo](#)”, *Instituto Nacional da Propriedade Industrial (INPI)*. [BR102014023780A2](#). Filing date: 09/25/2014. Publication date: 05/17/2016.
- 2014 Rocha, Anderson; Torres, Ricardo; Penatti, Otávio; **Mendes Júnior, Pedro**; Pazinato, Daniel; de Almeida, Waldir; Werneck, Rafael; Stein, Bernardo, “[Método para classificação automática de visões do coração a partir de ecocardiogramas](#)”, *Instituto Nacional da Propriedade Industrial (INPI)*. [BR102014011059A2](#). Filing date: 05/07/2014. Publication date: 12/04/2018.