Pedro Ribeiro Mendes Júnior

Institute of Computing (IC)
University of Campinas (Unicamp)
Av. Albert Einstein, 1251, Campinas, SP, 13083-852, Brazil

Phone: +55 (19) 3521-5840
Emails: pedrormjunior@gmail.com • pedro.junior@ic.unicamp.br
URL: pedrormjunior.github.io

Born: June 17, 1990, São Sebastião da Grama, São Paulo, Brasil
Nationality: Brazilian

Current position

Post-doc researcher, Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano

Areas of specialization

Computer Science • Machine Learning • Open-Set Recognition

Education

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

Complementary Education

2016–2017	Doctoral internship as a researcher assistant (1 year)
	University of Colorado Colorado Springs (UCCS), with Prof. Terrance Boult
2011	Short term course in Applied Functional Programming in Haskell (40 hours)
	Utrecht University, Netherlands

Languages

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

Grants, honors & awards

2016	Prêmio Inventores Unicamp • Reitoria da Unicamp e Agência de Inovação Inova Unicamp

Publications

Journal articles

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

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; Gonçalvez, 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, Giovani; 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), "Towards an automatic vehicle access control system: License plate location", In: *WUW Workshop of Undergraduate Work, XXIII Conference on Graphics, Patterns and Image.*

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).* U.S. Patent: 14532580. 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).* Brazil: BR10201402378. 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).* Brazil: BR10201401105. Filing date: 05/07/2014.