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## 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 Boulton
2011	Short term course in Applied Functional Programming in Haskell (40 hours) Utrecht University, Netherlands

## Languages

Portuguese	Native				
English	Understanding Fluent	• Speaking Advanced	• Writing Advanced	• Reading Advanced	
Spanish	Understanding Intermediary	• Speaking Basic	• 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*. (Early Access)  
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; 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), “[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)*. 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.

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.