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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

BCS, Federal University of Ouro Preto (UFOP), Brazil

MSc in Computer Science, University of Campinas (Unicamp), Brazil 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 Short term course in Applied Functional Programming in Haskell (40 hours)

Utrecht University, Netherlands

Languages

Portuguese Native

2011

English Understanding Fluent • Speaking Advanced • Writing Advanced • Reading Advanced
Spanish Understanding Intermediary • Speaking Basic • Writing Intermediary • Reading Advanced
Understanding Intermediary • Speaking Intermediary • Writing Basic • Reading Intermediary

Grants, honors & awards

Prêmio Inventores Unicamp • Reitoria da Unicamp e Agência de Inovação Inova Unicamp
Honored Papers 2015 • Elsevier Computers in Biology and Medicine

Publications

JOURNAL ARTICLES

- Mendes Júnior, Pedro; Bondi, Luca; Bestagini, Paolo; Tubaro, Stefano; Rocha, Anderson, "An indepth study on open-set camera model identification", *IEEE Access*. (Early Access)
- Neira, Manuel; **Mendes Júnior, Pedro**; Rocha, Anderson; Torres, Ricardo, "Data-fusion techniques for open-set recognition problems", *IEEE Access.* 6:21242–21265.
- 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.
- 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.
- 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.
- 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

- 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.
- 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.
- 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.
- 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

- 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.
- 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.

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