JOÃO RIBEIRO PINTO

CURRICULUM VITÆ

Senior Deep Learning Researcher
Bosch Car Multimedia
Rua do Barrio de Cima 1, 4705-629 Braga, Portugal
Phone: +351-253-182-141 / +351-912-973-549
Email: joao.ribeiropinto@bosch.com / jtpinto@fe.up.pt / jtrpinto@gmail.com
Website: http://jtrpinto.github.io

Linked-in: in/jtrpinto
Orcid: 0000-0003-4956-5902
Google Scholar: hhF9Q8kAAAAJ
Ciência-ID: 5F13-BBF3-1A46
Authenticus: R-00H-FFQ
ResearchGate: profile/Joao_Ribeiro_Pinto
Publons: 1450970/joao-ribeiro-pinto

About: *João is currently a Senior Deep Learning Researcher on the THEIA project at Bosch Portugal. He was born in 1994 in Vila Real and completed his M.Sc. degree in Bioengineering - Biomedical Engineering at FEUP in 2017 with a dissertation on the use of steering wheel ECG signals for biometric recognition. João completed his Ph.D. degree in Electrical and Computer Engineering at FEUP in 2022 with a thesis addressing the use of seamlessly acquired multimodal biometric data to achieve personalised wellbeing monitoring, contributing mainly to innovative deep learning approaches for ECG biometrics in realistic scenarios. Within the THEIA project, João currently studies novel perception AI technologies for autonomous driving, co-leading a subproject focused on computing infrastructure security and privacy. Throughout his research career, João contributed to five research projects and supervised sixteen master theses and over twenty internship students. He has authored over forty publications, including eleven journal articles and seventeen articles in proceedings of international conferences. His work has been cited over four hundred times by his peers and granted multiple awards, most notably the 2022 Max Snijder Award granted by the European Association for Biometrics.*

Current positions

since 04/22 **Senior Deep Learning Researcher**, Bosch Portugal, Braga, Portugal

Education

2018–2022 **Doctoral Programme in Electrical and Computers Engineering**
Faculdade de Engenharia da Universidade do Porto (grade Approved)
Thesis: *Seamless Multimodal Biometrics for Continuous Personalised Wellbeing Monitoring*
Supervisors: Prof. Dr. Jaime S. Cardoso (INESC TEC) & Prof. Dr. Miguel V. Correia (INESC TEC)

2014–2017 **Integrated Master in Bioengineering – Biomedical Engineering** (Bachelor + Master)
Faculdade de Engenharia da Universidade do Porto, Portugal (grade 16 out of 20)
Dissertation: *Continuous Biometric Identification on the Steering Wheel* (grade 20 out of 20)
Supervisors: Prof. Dr. Jaime S. Cardoso (FEUP) & Prof. Dr. André Lourenço (CardioID Technologies)

Experience

since 04/22 **Senior Deep Learning Researcher** at THEIA project on intelligent perception for autonomous vehicles, including co-leadership of a subproject on infrastructure, security, and privacy solutions
Bosch Car Multimedia, Portugal

10/18–04/22 **Ph.D. Scholarship** for research on pattern recognition for multimodal biometrics and well-being monitoring
Fundação para a Ciência e Tecnologia, IP (FCT), Portugal

10/17–04/22 **Research Assistant** on pattern recognition and biometrics
INESC TEC, Portugal

01/18–09/18 **M.Sc. Scholarship** on image analysis for archive documents and media content (CHIC project)
Faculdade de Engenharia da Universidade do Porto, Portugal

08/17–12/17 **M.Sc. Scholarship** on deep learning for electrocardiogram biometric identification
Faculdade de Engenharia da Universidade do Porto, Portugal

2016–2017 **M.Sc. Thesis Student and Intern** on off-the-person continuous ECG biometrics
CardioID Technologies Lda., Portugal

Participation in Research Projects

since 04/22 **Researcher** at *THEIA Project*: automated perception and multi-sensor fusion for autonomous vehicles

12/21–04/22 **Researcher** at *Aurora Project*: In-vehicle activity recognition and wellbeing measurement

02/20–11/21 **Researcher** at *Easy Ride Project*: In-vehicle occupant emotional state monitoring

07/19–10/21 **Researcher** at *AUTOMOTIVE Project*: Driver drowsiness monitoring using continuous data

01/18–09/18 **Scholarship Researcher** at *CHIC Project*: Quality assessment of print text documents

Scientific publications

Journal articles (11)

2022 P. C. Neto, T. Gonçalves, J. R. Pinto, W. Silva, A. F. Sequeira, A. Ross, and J. S. Cardoso, "**Explainable Biometrics in the Age of Deep Learning**," *ACM Computing Surveys. (submitted)*

2022 S. Beco, J. R. Pinto, and J. S. Cardoso, "**Electrocardiogram Lead Conversion from Single-Lead Blindly-Segmented Signals**," *BMC Medical Informatics and Decision Making*, 22: 314. doi:10.1186/s12911-022-02063-6

2022 L. G. Capozzi, V. Barbosa, C. Pinto, J. R. Pinto, A. Pereira, P. M. Carvalho, and J. S. Cardoso, "**Toward Vehicle Occupant-Invariant Models for Activity Characterization**," *IEEE Access*, 10: 104215–104225. doi:10.1109/ACCESS.2022.3210973

2022 P. C. Neto, J. R. Pinto, F. Boutros, N. Damer, A. F. Sequeira, and J. S. Cardoso, "**Beyond Masks: On the Generalization of Masked Face Recognition Models to Occluded Face Recognition**," *IEEE Access*, 10: 86222–86233. doi:10.1109/10.1109/ACCESS.2022.3199014

2021 T. Esteves, J. R. Pinto, P. M. Ferreira, P. Costa, L. A. Rodrigues, I. Antunes, G. Lopes, P. Gamito, A. Abrantes, P. M. Jorge, A. Lourenço, A. F. Sequeira, J. S. Cardoso, and A. Rebelo, "**AUTOMOTIVE: A case study on AUTOmatic multiMOdal drowsiness detecTIon for smart VEhicles**," *IEEE Access* 9: 153678–153700. doi:10.1109/ACCESS.2021.3128016

2021 A. F. Sequeira, T. Gonçalves, W. Silva, J. R. Pinto, and J. S. Cardoso, "**An Exploratory Study of Interpretability for Face Presentation Attack Detection**," *IET Biometrics* 10 (4): 441–455. doi:10.1049/bme2.12045

2021 J. R. Pinto, M. V. Correia, and J. S. Cardoso, "**Secure Triplet Loss: Achieving Cancelability and Non-Linkability in End-to-End Deep Biometrics**," *IEEE Transactions on Biometrics, Behavior, and Identity Science* 3 (2): 180–189. doi:10.1109/TBIOM.2020.3046620

2020 S. P. Oliveira, J. R. Pinto, T. Gonçalves, R. C. Marques, M. J. Cardoso, H. P. Oliveira, and J. S. Cardoso, "**Weakly-Supervised Classification of HER2 Expression in Breast Cancer Haematoxylin and Eosin Stained Slides**," *Applied Sciences* 10 (14): 4728. doi:10.3390/app10144728

2018 J. R. Pinto, J. S. Cardoso, and A. Lourenço, "**Evolution, Current Challenges, and Future Possibilities in ECG Biometrics**," *IEEE Access* 6: 34746–34776. doi:10.1109/ACCESS.2018.2849870

2017 J. R. Pinto, J. S. Cardoso, A. Lourenço, and C. Carreiras, "**Towards a Continuous Biometric System Based on ECG Signals Acquired on the Steering Wheel**," *Sensors* 17 (10): 2228. doi:10.3390/s17102228

2017 J. R. Pinto and J. M. R. S. Tavares, "**A versatile method for bladder segmentation in computed tomography two-dimensional images under adverse conditions**," *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine* 231 (9): 871–880. doi:10.1177/0954411917714294

International conference articles (17)

2022 P. C. Neto, F. Boutros, J. R. Pinto, N. Damer, A. F. Sequeira, J. S. Cardoso, M. Bengherabi, A. Bousnat, S. Boucheta, N. Hebbadj, B. Yahya-Zoubir, M. E. Erakın, U. Demir, H. K. Ekenel, P. B. Q. Vidal, and D. Menotti, "**OCFR 2022: Competition on Occluded Face Recognition from Synthetically Generated Structure-Aware Occlusions**," in *International Joint Conference on Biometrics (IJCB 2022)*, 10–13 October, Abu Dhabi, UAE. doi:10.1109/IJCB54206.2022.10007963

2022 J. R. Pinto, P. Carvalho, C. Pinto, A. Sousa, L. G. Capozzi, and J. S. Cardoso, "**Streamlining Action Recognition in Autonomous Shared Vehicles with an Audiovisual Cascade Strategy**," in *17th International Conference on Computer Vision Theory and Applications (VISAPP)*, 6–8 February, Online. doi:10.5220/0010838900003124

2021 P. C. Neto, F. Boutros, J. R. Pinto, N. Damer, A. F. Sequeira, J. S. Cardoso, "**FocusFace: Multi-task Contrastive Learning for Masked Face Recognition**," in *Workshop on Face and Gesture Analysis for COVID-19 (FG4COVID19)*, 15–18 December, Jodhpur, India. doi:10.1109/FG52635.2021.9666792

2021 P. C. Neto, F. Boutros, J. R. Pinto, M. Saffari, N. Damer, A. F. Sequeira, and J. S. Cardoso, "**My Eyes Are Up Here: Promoting Focus on Uncovered Regions in Masked Face Recognition**," in *International Conference of the Biometrics Special Interest Group (BIOSIG 2021)*, 15–17 September, Darmstadt, Germany.

2021 F. Boutros, N. Damer, J. Kolf, K. Raja, F. Kirchbuchner, R. Ramachandra, A. Kuijper, P. Fang, C. Zhang, F. Wang, D. M. Martin, N. Aginako, B. Sierra, M. Nieto, M. E. Erakin, U. Demir, H. Ekenel, A. Kataoka, K. Ichikawa, S. Kubo, J. Zhang, M. He, D. Han, S. Shan, K. Grm, V. Struc, S. Seneviratne, N. Kasthuriarachchi, S. Rasnayaka, P. C. Neto, A. F. Sequeira, J. R. Pinto, M. Saffari, and J. S. Cardoso, "**MFR 2021: Masked Face Recognition Competition**," in *International Joint Conference on Biometrics (IJCB 2021)*, 4–7 August, Shenzhen, China. doi:10.1109/IJCB52358.2021.9484337

2021 L. G. Capozzi, P. Carvalho, A. Sousa, C. Pinto, J. R. Pinto, and J. S. Cardoso, "**Impact of visual noise in activity recognition using deep neural networks - an experimental approach**," in *2nd International Conference on Pattern Recognition and Machine Learning (PRML 2021)*, 16–18 July, Chengdu, China. doi:10.1109/PRML52754.2021.9520734

2021 L. G. Capozzi, J. R. Pinto, J. S. Cardoso, and A. Rebelo, "**End-to-End Deep Sketch-to-Photo Matching Enforcing Realistic Photo Generation**," in *25th Iberoamerican Congress on Pattern Recognition (CIARP'21)*, 10–13 May, Porto, Portugal. doi:10.1007/978-3-030-93420-0_42

2021 L. G. Capozzi, J. R. Pinto, J. S. Cardoso, and A. Rebelo, "**Optimizing Person Re-Identification using Generated Attention Masks**," in *25th Iberoamerican Congress on Pattern Recognition (CIARP'21)*, 10–13 May, Porto, Portugal. doi:10.1007/978-3-030-93420-0_24

2021 A. Matta, J. R. Pinto, and J. S. Cardoso, "**Mixture-Based Open World Face Recognition**," in *9th World Conference on Information Systems and Technologies (WorldCIST'21)*, 30 March – 2 April, Terceira Island, Azores, Portugal. doi:10.1007/978-3-030-72660-7_62

2020 J. R. Pinto, T. Gonçalves, C. Pinto, L. Sanhudo, J. Fonseca, F. Gonçalves, P. Carvalho, and J. S. Cardoso, "**Audiovisual Classification of Group Emotion Valence Using Activity Recognition Networks**," in *Fourth IEEE International Conference on Image Processing, Applications and Systems (IPAS 2020)*, 9–11 December, Genoa, Italy. doi:10.1109/IPAS50080.2020.9334943

2020 J. R. Pinto and J. S. Cardoso, "**Explaining ECG Biometrics: Is It All In The QRS?**," in *International Conference of the Biometrics Special Interest Group (BIOSIG 2020)*, 16–18 September, Darmstadt, Germany. Available online at: https://dl.gi.de/20.500.12116/34321

2020 J. R. Pinto and J. S. Cardoso, "**Self-Learning with Stochastic Triplet Loss**," in *International Joint Conference on Neural Networks (IJCNN 2020)*, 19–24 July, Glasgow, United Kingdom. doi:10.1109/IJCNN48605.2020.9206799

2020 J. R. Pinto, J. S. Cardoso, and M. V. Correia, "**Secure Triplet Loss for End-to-End Deep Biometrics**," in *8th International Workshop on Biometrics and Forensics (IWBF 2020)*, 29–30 April, Porto, Portugal. doi:10.1109/IWBF49977.2020.9107958

2020 A. F. Sequeira, W. Silva, J. R. Pinto, T. Gonçalves, and J. S. Cardoso, "**Interpretable Biometrics: Should We Rethink How Presentation Attack Detection is Evaluated?**," in *8th International Workshop on Biometrics and Forensics (IWBF 2020)*, 29–30 April, Porto, Portugal. doi:10.1109/IWBF49977.2020.9107949

2019 J. R. Pinto and J. S. Cardoso, "**An End-to-End Convolutional Neural Network for ECG-Based Biometric Authentication**," in *10th IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS 2019)*, 23–26 September, Tampa FL, United States. doi:10.1109/BTAS46853.2019.9185990

2019 G. Lopes, J. R. Pinto, and J. S. Cardoso, "**Don't You Forget About Me: A Study on Long-Term Performance in ECG Biometrics**," in *IbPRIA 2019: 9th Iberian Conference on Pattern Recognition and Image Analysis*, 1–4 July, Madrid, Spain. doi:10.1007/978-3-030-31321-0_4

2018 W. Silva, J. R. Pinto, and J. S. Cardoso, "**A Uniform Performance Index for Ordinal Classification with Imbalanced Classes**," in *International Joint Conference on Neural Networks (IJCNN 2018)*, 8–13 July, Rio de Janeiro, Brazil. doi:10.1109/IJCNN.2018.8489327

Book chapters (1)

2019 J. R. Pinto, J. S. Cardoso, and A. Lourenço, "**Deep Neural Networks for Biometric Identification Based on Non-Intrusive ECG Acquisitions**," in K. V. Arya and R. S. Bhadoria, Eds., *The Biometric Computing: Recognition and Registration*, Boca Raton FL, United States: CRC Press, ISBN:978-0-8153-9364-1, doi:10.1201/9781351013437-11

Encyclopaedia entries (1)

2021 J. R. Pinto and J. S. Cardoso, "**ECG Biometrics**," in S. Jajodia, P. Samarati, and M. Yung, Eds., *Encyclopedia of Cryptography, Security and Privacy*, Springer, ISBN:978-3-642-27739-9, doi:10.1007/978-3-642-27739-9_1517-1

Short papers presented in international conferences (1)

2021 S. Beco, J. R. Pinto, and J. S. Cardoso, "**Interlead Conversion of Single-Lead Blindly-Segmented Electrocardiogram Signals**," in *17th International Conference on Computational Intelligence Methods for Bioinformatics and Biostatistics (CIBB 2021)*, 15–17 November, Avellino, Italy.

National conference articles (9)

2021 J. R. Pinto and J. S. Cardoso, "**xECG: Using Interpretability to Understand Deep ECG Biometrics**," in *27th Portuguese Conference on Pattern Recognition (RECPAD 2021)*, 5 November, Évora, Portugal.

2021 L. Capozzi, J. R. Pinto, J. S. Cardoso, and A. Rebelo, "**Sketch-to-Photo Matching Enforcing Realistic Rendering Generation**," in *27th Portuguese Conference on Pattern Recognition (RECPAD 2021)*, 5 November, Évora, Portugal.

2020 J. R. Pinto, M. V. Correia, and J. S. Cardoso, "**Achieving Cancellability in End-to-End Deep Biometrics with the Secure Triplet Loss**," in *26th Portuguese Conference on Pattern Recognition (RECPAD 2020)*, 30 October, Évora, Portugal.

2020 S. P. Oliveira, J. R. Pinto, T. Gonçalves, H. P. Oliveira, and Jaime S. Cardoso, "**IHC Classification in Breast Cancer H&E Slides with a Weakly-Supervised Approach**," in *26th Portuguese Conference on Pattern Recognition (RECPAD 2020)*, 30 October, Évora, Portugal.

2020 W. Silva, J. R. Pinto, T. Gonçalves, A. F. Sequeira, and Jaime S. Cardoso, "**Explainable Artificial Intelligence for Face Presentation Attack Detection**," in *26th Portuguese Conference on Pattern Recognition (RECPAD 2020)*, 30 October, Évora, Portugal.

2019 J. R. Pinto and J. S. Cardoso, "**Fine Segmentation of Head and Torso Using Label Refinement Networks**," in *25th Portuguese Conference on Pattern Recognition (RECPAD 2019)*, 31 October, Porto, Portugal.

2019 G. Lopes, J. R. Pinto, J. S. Cardoso, and A. Rebelo, "**Long-Term Performance of a Convolutional Neural Network for ECG-Based Biometrics**," in *25th Portuguese Conference on Pattern Recognition (RECPAD 2019)*, 31 October, Porto, Portugal.

2019 P. Costa, P. Silva, J. R. Pinto, A. F. Sequeira, and A. Rebelo, "**Face Anti Spoofing: Handcrafted and Learned Features for Face Liveness Detection**," in *25th Portuguese Conference on Pattern Recognition (RECPAD 2019)*, 31 October, Porto, Portugal.

2018 J. R. Pinto, J. S. Cardoso, and A. Lourenço, "**Improving ECG-Based Biometric Identification Using End-to-End Convolutional Networks**," in *24th Portuguese Conference on Pattern Recognition (RECPAD 2018)*, 26 October, Coimbra, Portugal.

Theses (2)

2022 J. R. Pinto, "**Seamless Multimodal Biometrics for Continuous Personalised Wellbeing Monitoring**," Doctoral Programme in Electrical and Computer Engineering, Universidade do Porto.

2017 J. R. Pinto, "**Continuous Biometric Identification on the Steering Wheel**," Master in Bioengineering - Biomedical Engineering, Universidade do Porto.

Citation record

462 citations h-index 9 i10-index 8 (according to Google Scholar, 21/01/2023)

Student supervision

Master's Dissertations (16 students)

2023 **External supervisor of Cláudia Ribeiro**, M.Sc. Electrical & Computer Engineering, Universidade do Porto
Drawing the Line: Multimodal Lane Estimation for Autonomous Vehicles

2023 **Co-supervisor of Ricardo Andrade**, M.Sc. Data Science, Universidade do Porto
Cars Are Watching: Multimodal Detection and Anonymisation of Surrounding Faces for Autonomous Vehicles

2022 **External supervisor of João P. Mota**, M.Sc. Informatics & Computing Engineering, Universidade do Porto
Deep Implicit Representations in Autonomous Driving

2022 **Co-supervisor of Mariana S. Xavier**, M.Sc. Bioengineering, Universidade do Porto
Inside Out: Fusing ECG and Face Information to Recognise Emotions

2022 **Co-supervisor of Guilherme Barbosa**, M.Sc. Bioengineering, Universidade do Porto
Going 2D: Exploring Learnable Bidimensional Approaches for ECG Biometrics

2022 **External supervisor of Pedro Duarte Lopes**, M.Sc. Bioengineering, Universidade do Porto
Deep Neural Networks for Face-based Emotion Recognition

2022 **Co-supervisor of Erfan Omidvar**, M.Sc. Biomedical Engineering, Universidade do Porto
Single-Wrist Electrocardiogram Acquisition Application in Biometrics

2022 **External supervisor of Vítor Barbosa**, M.Sc. Informatics & Computing Engineering, Universidade do Porto
Robust occupant action classification in shared autonomous vehicles

2021 **External supervisor of Telma Esteves**, M.Sc. Biomedical Engineering, Universidade Nova de Lisboa
Sleepy Drivers: Drowsiness Monitoring Using ECG and Face Video

2021 **Co-supervisor of Sofia C. Beco**, M.Sc. Bioengineering, Universidade do Porto
Make My Heartbeat: Generation and Interlead Conversion of ECG Signals

2021 **Co-supervisor of Inês A. Magalhães**, M.Sc. Bioengineering, Universidade do Porto
Feel My Heart: Emotion Recognition Using the Electrocardiogram

2020 **Co-supervisor of Arthur J. Matta**, M.Sc. Informatics & Computing Engineering, Universidade do Porto
Open-World Face Recognition

2020 **Co-supervisor of Leonardo G. Capozzi**, M.Sc. Informatics & Computing Engineering, Universidade do Porto
Face Recognition For Forensic Applications: Methods for Matching Facial Sketches to Mugshot Pictures

2020 **Co-supervisor of João G. Ferreira**, M.Sc. Informatics & Computing Engineering, Universidade do Porto
Head Pose Estimation for Facial Biometric Recognition Systems

2020 **Co-supervisor of Carolina Afonso**, M.Sc. Network & Information Systems Engineering, Universidade do Porto
Changing Perspectives: Interlead Conversion in Electrocardiographic Signals

2019 **Co-supervisor of Gabriel C. Lopes**, M.Sc. Bioengineering, Universidade do Porto
Don't You Forget About Me: Enhancing Long Term Performance in Electrocardiogram Biometrics

Internships (23 students)

2022 **Supervisor of João Carvalho and Paula Ogata**
Deep Learning For Face Recognition - A Real-Time Face Biometric Recognition System, at INESC TEC

2021 **Supervisor of Mariana Calado**
Drowsiness detection using ECG signals, at INESC TEC

2021 **Supervisor of Brenda Nogueira, Ana Sousa, Bernardo Gabriel, João Romão, Rafael Cristino, and Renata Lei**
CTM Summer Internships 2021, at INESC TEC

2021 **Co-supervisor of Guilherme Barbosa**
An End-to-End Learnt 2D representation for ECG-Based Biometric Authentication, at INESC TEC

2021 **Co-supervisor of Duarte Lopes**
Interpretability for Face Presentation Attack Detection, at INESC TEC

2020 **Co-supervisor of Susana Lima**
CTM Summer Internships 2020, at INESC TEC

2020 **Co-supervisor of João Fonseca**
NEB Outclass Internship: Face Photograph Analytics, at INESC TEC

2020 **Co-supervisor of Catarina Lopes**
Face photograph analytics for automatic assessment of ICAO guideline compliance, at INESC TEC

2019 **Co-supervisor of Pedro Silva, Paulo Costa, Manuel Curral, Gil Teixeira, Pedro Neto, Martim Silva, João Mendes, João Moura, and Carolina Afonso**
CTM Summer Internships 2019, at INESC TEC

Scientific conferences and workshops

2023 **Programme Committee Member**
Workshop on Explainable & Interpretable Artificial Intelligence for Biometrics (xAI4Biometrics) at the *Winter Conference on Applications of Computer Vision (WACV 2023)*, January, Waikoloa, United States

2022 **Co-Organiser**
In-Vehicle Sensing and Monitorization Workshop (ISM) at the *European Conference on Computer Vision (ECCV 2022)*, October 24, Tel Aviv, Israel

2022 **Publicity Chair**
Workshop on Explainable & Interpretable Artificial Intelligence for Biometrics (xAI4Biometrics) at the *Winter Conference on Applications of Computer Vision (WACV 2022)*, January 4, Waikoloa, United States

2021 **Technical Chair & Programme Committee**
17th International Conference on Computational Intelligence Methods for Bioinformatics and Biostatistics (CIBB 2021), November 15–17, Avellino, Italy

2021 **Publicity & Local Organisation Chair**
Workshop on Explainable & Interpretable Artificial Intelligence for Biometrics (xAI4Biometrics) at the *Winter Conference on Applications of Computer Vision (WACV 2021)*, January 5, Waikoloa, United States

2020 **Demo Chair**
8th International Workshop on Biometrics and Forensics (IWBF 2020), April 29–30, Porto, Portugal

2019 **International Programme Committee Member**
15th Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON 2019), September 26–28, Coimbra, Portugal

2019 **Special Session Co-Organiser**
Special Session on Machine Learning in Healthcare Informatics and Medical Biology at the *16th International Conference on Computational Intelligence Methods for Bioinformatics and Biostatistics (CIBB 2019)*, September 4–6, Bergamo, Italy

Other events

2022 **Invited Speaker** and **Invited Workshop Lecturer** for *13th Symposium on Bioengineering*, Porto, Portugal
2022 **Organisation Team Member** for *VISUM 2022* summer school, Porto, Portugal

2021 **Organisation Team Member** for *VISUM 2021* summer school, Porto, Portugal
2021 **Organisation Team Member** for *OpenDay CTM 2021* event, Porto, Portugal
2021 **Invited Workshop Lecturer** for *12th Symposium on Bioengineering*, Porto, Portugal
2020 **Project Committee Member** for *VISUM 2020* summer school, Porto, Portugal
2019 **Project Committee Member** at *VISUM 2019* summer school, Porto, Portugal
2019 **Workshop Co-organiser** at CTM Open Day 2019
2017 **Communication and Image Team Member** at *8th Symposium in Bioengineering*, Porto, Portugal

Awards

2022 **EAB Max Snijder Award** awarded by the *European Association for Biometrics (EAB)*
2021 **Best Ph.D. Student Live Presentation** awarded by the jury at *NIS Workshop 2021*
2020 ***Computers* Journal Best Paper Award** at *IWBF 2020*
2020 **Best Session Paper Award** at *IEEE IPAS 2020*
2012 **Best Essay Award** (first prize) at *Prémio Católica 2012: Ciência e Saúde* on health, society, and gerontology

Peer review

Journals

- **IEEE**: *IEEE Transactions in Information Forensics and Security (TIFS)*, *IEEE Transactions on Biometrics, Behavior, and Identity Science (TBIOM)*, *IEEE Transactions on Artificial Intelligence (TAI)*, *IEEE Access*, *IEEE Sensors Letters*, *IEEE Signal Processing Letters*
- **Springer Nature**: *Progress in Artificial Intelligence (PAI)*, *BMC Medical Informatics and Decision Making*, *Medical & Biological Engineering & Computing (MBEC)*
- **MDPI**: *Sensors*, *Applied Sciences*, *Electronics*, *Symmetry*, *Algorithms*, *IJERPH*, *Remote Sensing*
- **Elsevier**: *Biocybernetics and Biomedical Engineering (BBE)*, *International Journal of Medical Informatics*
- **IET**: *IET Biometrics*
- **PeerJ**: *PeerJ Computer Science*
- **Sage**: *Journal of Engineering in Medicine (JOEIM)*

Conferences and Workshops

BIOSIG (2022)
ACM Multimedia (2020, 2021)
IEEE ICC (2023)
CIBB (2018, 2019, 2021)
MAP-A workshop (WACV) (2022, 2023)
ICAD (2021)
MEDICON (2019)
IWBF (2020, 2021, 2022, 2023)
CODASPY (2023)
IEEE BIOCAS (2018, 2021)
xAI4Biometrics workshop (WACV) (2021, 2022, 2023)
ISM workshop (ECCV) (2022)
IEEE ENBENG (2019)

Total of 124 reviews verified at Publons, 14 of which rated as excellent by the assigned editors.

Professional societies

since 2015 Student Member at **IEEE** (Institute of Electrical and Electronics Engineers)
since 2017 Student Member at **Ordem dos Engenheiros** (official portuguese engineering society)
since 2020 Student Member at **EURASIP** (European Association for Signal Processing)
since 2021 Student Member at **EAB** (European Association for Biometrics)

Other voluntary and extracurricular activities

2016–2017 **Communication and Image Collaborator** at NEB-FEUP/ICBAS (Bioengineering students association)
2015–2017 **Vice-Chair** at EMBS UP (IEEE Engineering in Medicine and Biology student chapter)
2015–2017 **Member** at NuIEEE (IEEE student branch at Universidade do Porto)
2015–2016 **Student Researcher** at VILab (informal computer vision research group for students)