

Cristiano Premebida



E-mail: cpremebida @ gmail.com / cpremebida @ isr.uc.pt
Phone: (+351) 239 796 214
Webpage: <http://home.isr.uc.pt/~cpremebida/>
Address: Department of Electrical and Computer Engineering (DEEC)
University of Coimbra, Polo II. 3030-290, Coimbra, Portugal.

Areas of interest

Robotics; Autonomous driving; Machine learning; Machine vision; Sensory perception.

Most of my recent work is on developing and applying machine learning techniques for sensor-based (Lidar and cameras) perception systems in mobile robotics and autonomous driving.

Professional experience

Institution: University of Coimbra, Portugal.
Period: 2013 – present.
Position/responsibilities: research scientist; postdoc fellow; invited lecturer.

Company: Sensing Evolution, Portugal.
Period: 2016 – 2017.
Position/responsibilities: CTO; AI-ML advisor.

Institution: Institute of System and Robotics (ISR-UC), Portugal.
Period: 2004 – present.
Position/responsibilities: MSc and PhD fellow researcher; associate researcher.

Company: Criavision Lda, Portugal.
Period: 2006 – 2012.
Position/responsibilities: Founder-member; consultant and project coordinator on automation and machine vision.

Company: Hahntel SA (Brazil and Mexico).
Period: 2000 – 2004.
Position/responsibilities: Project leader on machine vision (MV) and industry automation.

Academic degrees

Ph.D. in Electrical and Computing Engineering, 2012.
Institution: University of Coimbra, Portugal.
Thesis title: Pedestrian detection using laser and vision.

M.Sc. in Electrical and Computing Engineering, 2007.
Institution: University of Coimbra, Portugal.
Thesis title: “*Object detection and classification in outdoor scenes for autonomous vehicles*”.

B.Sc. in Electrical Engineering, 2001.
Institution: State University of Santa Catarina (UDESC), Brazil.
Thesis title: “*Machine vision for industrial inspection systems*”.

Published works

Google scholar: <https://scholar.google.com/citations?user=RuHUvNMAAAAJ&hl=en>
Articles and Conference papers: http://home.isr.uc.pt/~cpremebida/files_cp/pub.html

Participation in R&D projects

Project: "Regulation Study for Interoperability in the Adoption of Autonomous Driving in European Urban Nodes" (AutoCITS); CEF-INEA, European Commission.

Webpage: <https://www.autocits.eu/>

Period: Nov/2016 – Dec/2018. Position: WP Leader, and PI from Univ. Coimbra.

Project: "Scientific and technical innovations for safer Powered Two Wheelers" (PTW); COST Action.

Webpage: <http://www.safe2wheelers.eu/>

Period: Mar/2015 – Mar/2019. Position: MC member representing Portugal.

Project: "Automated-Guided-Vehicle with innovative indoor positioning system for the factory of the future" (AGVPOSYS); National project in cooperation with a SME.

Webpage: <http://www.activespacetech.com/agvposys/>

Period: Aug/2015 – Jul/2018. Position: Co-PI from Univ. Coimbra.

Past projects: <http://www.isr.uc.pt/index.php/people?task=showpeopleisr.show&idPerson=97>

Other activities

Workshop organizer, 2nd International Workshop on Connected, Automated and Autonomous Vehicles (CA2V), IEEE International Conference on Vehicular Electronics and Safety (ICVES), 2018.

TPC for IEEE Vehicular Technology Conference (VTC), 2018.

Session Chair of the VEHITS 2018.

Workshop organizer, 2nd International Workshop "Artificial Perception, Machine Learning and Datasets for Human-Robot Interaction" (ARMADA), IEEE RO-MAN, 2018.

Workshop organizer, 1st International Workshop on Connected, Automated and Autonomous Vehicles (CA2V), IEEE 87th Vehicular Technology Conference: VTC2018-Spring, 2018.

Guest Editor for Special Issue on Journal of Behavioral Robotics (Paladyn), 2017.

TPC for 3rd Iberian Robotics Conference (ROBOT), 2017.

Workshop organizer, 1st International Workshop "Artificial Perception, Machine Learning and Datasets for Human-Robot Interaction" (ARMADA'17), IEEE 26th RO-MAN, 2017.

TPC member, IEEE Int. Conf. on Intelligent Transportation Systems (ITSC), 2017.

TPC member, 3rd International Workshop on Safety and Security of Intelligent Vehicles (SSIV), 2017.

Registration Chair of the IEEE RO-MAN 2017.

Workshop organizer, Workshop on "Applied Machine Learning: Concepts and Case Studies", III-UC, 2017.

Workshop organizer, International Workshop on "Advanced perception, Machine learning and Data sets", IEEE Int. Intelligent Transportation Systems Conference (ITSC), 2016.

Registration Co-Chair of the IEEE ITSC 2016.

Session Chair of the IEEE ITSC 2015.

Coordinator of the Bylaw's Committee of the PostDoc@UC Initiative, Univ. Coimbra. Since Sep/2015.

Selected researcher to participate in the SPSAS e-SciBioenergy-Brazil, October, 2012.

Member of the local arrangements committee of the IEEE/RSJ IROS-2012.

Member of the local arrangements committee of the IEEE ITSC-2010.

Visiting researcher at Swiss Federal Institute of Technology (at ASL Lab, ETH-Zurich), Jul-Aug 2008.

Reviewer for: IEEE Trans. on Cybernetics; IEEE Trans. on Intelligent Transportation Systems; MDPI AG Sensors;

IEEE Trans. on Industrial Electronics; ETRI Journal; Elsevier Information Fusion; Elsevier Neurocomputing; IEEE

Trans. on Vehicular Technology; Elsevier Pattern Recognition Letters; IEEE Magazine on ITS; Elsevier Journal of

Systems Architecture; Journal of Field Robotics; Elsevier Journal of Visual Communication and Image

Representation; Sage, Int. Journal of Robotics Research; IEEE Trans. Robotics; Elsevier RAS.

Reviewer for Int. IEEE conferences: ITSC, IV, IROS, ARSO, ICRA, ICARSC, RO-MAN, and others.