

CRISTIANO PREMEBIDA

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Research areas of interest

Artificial intelligence; Pattern recognition; Machine vision; Sensory perception.

Most of my recent research has been applied to pedestrian detection, autonomous/intelligent vehicles perception systems using LIDAR and cameras, and mobile robotics perception.

Professional experience

Institution: University of Coimbra, Portugal.
Period: 2013 – present.
Position/responsibilities: Associate research scientist.

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

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

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

Articles and Conference papers: http://home.isr.uc.pt/~cpremebida/files_cp/pub.html

Google scholar: <https://scholar.google.com/citations?user=RuHUvNMAAAAJ&hl=en>

Participation in R&D projects

Project name: Scientific and technical innovations for safer Powered Two Wheelers (PTW); COST Action.
Period: since Oct/2015 Position: MC representing Portugal.

Project name: Automated-Guided-Vehicle with innovative indoor positioning system for the factory of the future (AGVPOSYS); National project in cooperation with a SME.
Period: Aug/2015 – Jul/2018 Position: Co-PI.

Project name: Assisted Mobility Supported by Shared-control and Advanced HMI (AMS-HMI12); National R&D project funded by FCT.
Period: Jan/2013 – Dec/2015. Position: researcher.

Project title: Pedestrian Detection in Urban Challenging Scenarios (PDCS2010); National R&D project funded by FCT.
Period: 2011 – 2012. Position: researcher.

Project title: Models for traffic simulation of electric vehicles with communications and dynamic decision capacity (EVSIM09); National R&D project funded by FCT.
Period: 2011 – 2012. Position: researcher.

Project title: Perception Methods for an Intelligent Transportation System using On-Board and Off-Board Sensing (PmITS06); National R&D project funded by FCT.
Period: 2007 – 2009. Position: researcher.

Project title: Cyber C3 - Cybernetic technologies for cars in the Chinese Cities (International).
Period: 2006 – 2007. Position: researcher.

Project title: Multi Target Detection and Tracking System (MTDTS04); National R&D project funded by FCT.
Period: 2004 – 2006. Position: researcher.

Other activities

- Reviewer for IEEE Transactions: on Cybernetics; on Intelligent Transportation Systems; on Industrial Electronics; on Vehicular Technology. Int. journal of ETRI Journal; Elsevier Neurocomputing; Elsevier PRLetters; IEEE Magazine on ITS; Elsevier Journal of Systems Architecture; Journal of Field Robotics; Sensors; Elsevier Journal of VCIR. Int. IEEE conferences: ITSC, IV, IROS, ARSO, ICRA, and others.
- Registration Co-Chair of the Int. Conference IEEE ITSC-2016.
- Session Chair of the Int. Conference 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 Int. Conference IEEE/RSJ IROS-2012.
- Member of the local arrangements committee of the Int. Conference IEEE ITSC-2010.
- Visiting researcher at Swiss Federal Institute of Technology (ETH, Zurich), Jul-Aug 2008.