

Miguel Lourenço

CONTACT INFORMATION

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RESEARCH INTERESTS

Object/scene recognition, multi-scale image analysis, image content representation and retrieval

EDUCATION

University of Coimbra, Coimbra, Portugal

Ph.D. Candidate, Electrical and Computer Engineering, July 2010 (expected : June 2014)

- Dissertation Topic: Matching and Recognition in Endoscopic Images. Advisor: Prof. Dr. João P. Barreto
- Curricular Component - Average of 19 out of 20
 - Computational Methods for Estimation, Detection and Identification - 19/20
 - Image and Video Compression - 19/20
 - Systems of Cognitive Vision - 18/20
 - Video vigilance and biometrics - 18/20
 - PhD Thesis Project - 19/20

University of Coimbra, Coimbra, Portugal

M.S., Biomedical Engineering, July, 2009

- Dissertation Topic: 'Techniques for keypoint detection and matching between endoscopic images' (Final Grade : 19/20). Advisor: Prof. Dr. João P. Barreto

VISITING POSITIONS AND OTHERS

Visiting position in INRIA-Rhône Alps working under the supervision of Simone Gasparini

Participation in the 1st Summer school of Machine Learning and Pattern Recognition organized by INRIA (Grenoble, France 2010)

HONORS AND AWARDS

\$800 IEEE-ICRA 2012 travel award

\$500 IEEE-ICRA 2010 travel award (30 awarded grants out of 102 submissions)

Finalist for the "Best Student Paper Award" at IEEE-ICRA 2010

PhD grant SFRH/BD/63118/2009 by Portuguese Foundation for Science

ACADEMIC EXPERIENCE

University of Coimbra, Coimbra, Portugal

Researcher at Institute for Systems and Robotics - Coimbra **September, 2009 - July, 2010**
Working mainly with focus in image features detection and descriptor under radial distorted images.

Teaching Assistant

October, 2009 - November, 2009

Responsible for supervising the 3rd year students during practical classes. The lessons' objectives were electronic Labview implementations for the measurement of physical quantities.

PUBLICATIONS

IEEE-TRO 2012 M. Lourenco, J.P. Barreto, and F. Vasconcelos, "sRD-SIFT Keypoint Detection and Matching in Images with Radial Distortion", " IEEE Transactions on Robotics 2012.

ECCV 2012 M. Lourenco, V. Pedro, and J.P. Barreto, "Tracking feature points in uncalibrated images with radial distortion," European Conference on Computer Vision, 2012

IEEE-ICRA 2012 M. Lourenco, V. Pedro, and J.P. Barreto, "Localization in indoor environments by querying omnidirectional visual maps using perspective images," IEEE International Conference on Robotics and Automation, 2012

IEEE-ICRA 2010 M. Lourenço, J.P. Barreto, and A. Malti, "Feature Detection and Matching in Images with Radial Distortion," IEEE International Conference on Robotics and Automation, 2010. (Finalist for the Best Student Paper Award)

TALKS

- M. Lourenço, J.P. Barreto, and A. Malti, "Feature Detection and Matching in Images with Radial Distortion," at ICRA'2010, Anchorage, Alaska . Presenter : M. Lourenço
- A. Malti and J.P. Barreto, "Robust Hand-Eye Calibration for Computer Aided Medical Endoscopy ," at ICRA'2010, Anchorage, Alaska. Presenter : M. Lourenço
- "ArthroNav : Computer Assisted Surgery using Endoscopic Images", 1st Portuguese Meeting in Biomedical Engineering, 2011. Presenter : M. Lourenço

COMPUTER SKILLS

Languages: C/C++, MatLab, Java, MySQL, basic knowledge of PHP
Applications: \LaTeX , Mac / Windows database, spreadsheet, and presentation software
Libraries: OpenCV
Operating Systems: Mac OS, Windows

LANGUAGE

English : Fluently written and spoken
French : Functional spoken and basic written
Portuguese : Mother tongue