Eduardo Perdices García

PhD in Computer Vision

✉ *eperdices@gsyc.es*
http://gsyc.es/~eperdices

Education

2013 – 2017 **PhD in Advanced Hardware and Software Systems**, *Rey Juan Carlos University*, Fuenlabrada, Madrid (Spain).

2009 – 2010 **Master's Degree in Telematic and Information Systems**, *Rey Juan Carlos University*, Móstoles, Madrid (Spain).

2004 – 2009 **Bachelor's Degree in Computer Science and Engineering (5-year degree)**, *Rey Juan Carlos University*, Móstoles, Madrid (Spain).

Work Experience

October 2018 – Present **Head of Software Department**, *Star Robotics*, Alcobendas (Spain).
Development of mobile robots control software for high risk missions. Development of autonomus navigation algorithms for mobile robots by using cameras and depth sensors.

February 2014 – October 2018 **Software Engineer**, *AFC Ingenieros S.A.*, Madrid (Spain).
Development of computer vision systems, focused on real-time visual SLAM algorithms. Programming of Android applications. Back-end web development using Django web framework.

September 2009 – December 2013 **Contracted Researcher**, *Rey Juan Carlos University*, Madrid (Spain).
Research in computer vision and robotics. Development of real-time visual localization algorithms (Visual SLAM).

March 2009 – June 2009 **System Administrator and Software Developer**, *AFC Ingenieros S.A.*, Madrid (Spain).
Administration tasks in GNU\Linux systems and MySQL databases, software development using Java programming language.

Theses

July 2017 **Doctoral Thesis**, *Robust visual localization techniques for robots in real time with and without maps*, PhD in Advanced Hardware and Software Systems, Mark/Grade: Cum Laude.
Doctoral Thesis in robotics and computer vision.

July 2010 **Master's Degree Project**, *Visual Self-Localization in the RoboCup with sampling-based algorithms*, Telematic and Information Systems, Mark/Grade: First class with Honours/A with Honors.
Research project in robotics and computer vision.

September 2009 **Bachelor's Degree Project**, *Visual Self-Localization in the RoboCup based in 3D goals detection*, Computer Science and Engineering, Mark/Grade: First class with Honours/A with Honors.
Research project in robotics and computer vision.

Journal Citation Reports (JCR)

January 2019 **SDVL: Efficient and Accurate Semi-Direct Visual Localization**, Eduardo Perdices and José M. Cañas.
Sensors 2019, 19(2), 302. MDPI. DOI: 10.3390/s19020302.

June 2018 **University learning environment for robots programming**, José M. Cañas, Alberto Martín, Eduardo Perdices, Francisco Rivas and Roberto Calvo.
Revista iberoamericana de automática e informática industrial (RIAI), ISSN-e 1697-7912, Vol. 15, 4, 2018, 404-415.

January 2013 **Robot Evolutionary Localization Based on Attentive Visual Short-Term Memory**, Julio Vega, Eduardo Perdices and José María Cañas.
Sensors, ISSN 1424-8220, 2013, 13(1), 1268-1299.

Languages

Spanish **Native**

English **Advanced level**

German **Intermediate level**

Skills

Computer Vision SLAM, Machine Learning

Operating systems GNU/Linux, Windows, Android

Programming languages C/C++, Python, Java, PHP, MySQL

Web design Django, Laravel, AJAX, JavaScript

Libraries OpenCV, Eigen, OpenGL

Tools ROS, Gazebo, Matlab, Eclipse

Others

- Driving license (Motor vehicles).
- Availability to travel.