

Mondéjar-Guerra, Víctor Manuel

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★ 22 July 1989



WORK EXPERIENCE

MARCH 2017 – NOW

Research technician

VARPA Research group, University of A Coruña

I+D Project: eDSalud

Signal Processing.
ECG Classification.
Machine Learning.

SEP 2016 – MARCH 2017

Computer Vision Engineer

ROVIMATICA, Córdoba

I+D Project: OptiRail

Image Processing and Computer Vision Algorithms.
Image Stitching.
Real Time.

NOV 2012 – DEC 2015

Ph.D. Student / Researcher

AVA Research group, University of Córdoba

I+D Project: Broca

Image Processing and Computer Vision Algorithms.
Camera Pose Estimation.
Keypoint Matching with Local Descriptors.
Augmented Reality / Fiducial Markers.
Machine Learning.

PUBLICATIONS

Robust Identification of Fiducial Markers in Challenging Conditions Mondéjar-Guerra, V; Garrido-Jurado, S; Muñoz-Salinas, R; Marín-Jiménez, M; Medina-Carnicer, R. Expert Systems with Applications, 2017

Classification of Fiducial Markers in Challenging Conditions with SVM. Mondéjar-Guerra, V; Garrido-Jurado, S; Muñoz-Salinas, R; Marín-Jiménez, M; Medina-Carnicer, R. Pattern Recognition and Image Analysis, pp.344-352. 2017

Keypoint Descriptor Fusion with Dempster-Shafer Theory. Mondéjar-Guerra, V; Muñoz-Salinas, R; Marín-Jiménez, M; Carmona-Poyato, A; Medina-Carnicer, R. International Journal of Approximate Reasoning 60, 57-70. 2015

EDUCATION

- 2013 – 2016 **University of Córdoba**
Ph.D. in COMPUTER SCIENCE
Thesis: Contributions to camera pose estimation
- 2012 – 2013 **University of Córdoba**
M.Sc. INTELLIGENT SYSTEMS
- 2010 – 2012 **University of Córdoba**
B.Sc. COMPUTER SCIENCE ENGINEER
Degree Project: Comparison of matching between images methods.
- 2007 – 2010 **University of Córdoba**
B. Sc. TECHNICAL ENGINEERING IN COMPUTER SYSTEMS
Degree Project: IDAL: Intelligent Digital Album. Developed in C++, using Qt and OpenCV.

SOFTWARE SKILLS

- GOOD LEVEL C++, OpenCV, Qt, Python
- INTERMEDIATE MATLAB, CUDA, TensorFlow, Caffe, OpenMP, MPI, C#, ~~La~~TeX, Ubuntu, Windows,
- BASIC LEVEL Java, PHP, PCL

COMMUNICATION SKILLS

- ENGLISH Oral: fair – Written: good
- SPANISH Native speaker

INTERESTS

Highly interested in computer vision, machine learning and parallel computing optimization.

Main research interests: Keypoint Matching. Local descriptors. Fiducial Markers. Machine Learning.