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Clara Fernández-Labrador

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Education

Universidad de Zaragoza, Spain / Université de Bourgogne Franche-Comté, France Oct 2017 - Now

Ph.D. in Computer Vision

Advised by Dr. José J. Guerrero Campo and Dr. Cédric Demonceaux

- Summer School on Computer Vision - ICVSS 2018 (34%)

- Visit research at CVL in ETH Zürich

Politecnico di Torino, Italy

Sep 2016 - Mar 2017

Visit during Master of Industrial Engineering

Funded by EU Erasmus Program

Università degli studi di Trieste, Italy

Sep 2014 - Jun 2015

Visit during Bachelor of Industrial Engineering

Funded by EU Erasmus Program

Universidad de Zaragoza, Spain

Master of Industrial Engineering

Sep 2015 - Oct 2017

Thesis title: “3D Room Layout Estimation from a Single 360° Panorama”

Advised by Dr. José J. Guerrero Campo and Dr. Alejandro Pérez Yus

Bachelor of Industrial Engineering

Sep 2011 - Sep 2015

Thesis title: “Design and Organization for the Machines Control in a Company”

Advised by Dr. Ángel Fernández Cuello and Dr. Nicolich Marino

Work Experience

ETH Zürich, Switzerland

Aug 2019 - Dec 2019

Visit Researcher – PhD Candidate

Prof. Luc Van Gool

Computer Vision Laboratory (CVL)

Funded by CAI-Ibercaja Program and ETHZ scholarship

Universidad de Zaragoza, Spain / Université de Bourgogne Franche-Comté, France

Oct 2017 - Now

Research Assistant – PhD Candidate

Robotics, Perception & Real Time Group.

Research in Computer Vision and Robotics: 3D scene analysis with non-conventional cameras for robotics and people assistance. Geometry and deep learning combination.

Universidad de Zaragoza, Spain

Mar 2017 - Oct 2017

Research Assistant - Ms. Candidate

Robotics, Perception & Real Time Group.

Research Initiation Scholarship

Research in Computer Vision and Robotics: 3D layout recovery of indoor scenes from single panoramic images. Geometry and deep learning combination.

Colombin GM & Figlio Spa, Trieste, Italy

Mar 2015 - Jul 2015

Undergraduate Intern - Bs. Candidate

Project management. Bottlenecks and personal protective equipment (PPE) managing.

Tecnopackaging, Zaragoza, Spain

May 2014 - Aug 2014

Undergraduate Intern - Bs. Candidate

3D CAD design and injection simulations in prosthetics with biocompatible plastics.

Languages

English - First Certificate (B2). Currently preparing Cambridge Advanced (C1)

Italian - CILS Livello TRE (C1)

French - Lower Intermediate

Spanish - Mother tongue

Publications

JOURNALS AND LETTERS

- [1] "Layouts from Panoramic Images with Geometry and Deep Learning"
Clara Fernández Labrador, Alejandro Pérez Yus, Gonzalo López Nicolás, José J. Guerrero
IEEE Robotics and Automation Letters, 2018
With IROS 2018 Presentation

INTERNATIONAL CONFERENCES AND WORKSHOPS

- [1] "Corners for Layout: End-to-End Layout Recovery from 360 Images"
Clara Fernández Labrador*, J. María Fácil*, Alejandro Pérez Yus, Cédric Demonceaux, Javier Civera, José J. Guerrero.
WiCV with CVPR 2019. Under Review, 2019.
- [2] "PanoRoom: From the Sphere to the 3D Layout"
Clara Fernández Labrador, J. María Fácil, Alejandro Pérez Yus, Cédric Demonceaux, José J. Guerrero
3DRMS with ECCV 2018. Munich, Germany.
- [3] "Full 3D Layout Reconstruction from One Single 360° Image"
Clara Fernández Labrador, Alejandro Pérez Yus, Gonzalo López Nicolás, José J. Guerrero
WiCV with ECCV 2018. Munich, Germany.
ICVSS 2018. Sicily Italy.

JORNADAS DE INVESTIGACIÓN

- [1] "Reconstrucción 3D completa de habitaciones a partir de imágenes panorámicas"
Clara Fernández Labrador, Alejandro Pérez Yus, Gonzalo López Nicolás, José J. Guerrero
VII Jornada de Jóvenes Investigadores del Instituto de Investigación en Ingeniería de Aragón (I3A) 2018.
Zaragoza, Spain.

Supervised Bachelor/Master thesis projects

- "Layout reconstruction with single view" (9.7/10)
Juan Carlos Medina. Co-supervised with Dr. José J. Guerrero Campo.
Bs. Industrial Eng., University of Zaragoza. 2018
- "Object recognition in 360 images" (10/10)
Julia Guerrero Campo. Co-supervised with Dr. José J. Guerrero Campo.
Bs. Computer Science, University of Zaragoza. 2019