

Roberto Valle Fernández

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Curriculum Vitae

Madrid Spain

Education

Technical University of Madrid

(https://github.com/bobetocalo/bobetocalo_eccv18).

Technical University of Madrid	Madrid, Spain
PhD Programme in Artificial Intelligence	2015 - December 2019 (expected)
Thesis: Head pose estimation and facial landmarks localization.	
Rey Juan Carlos University	Madrid, Spain
MSc in Computer Vision, 8.83/10	2011 - 2013
Thesis: Text detection and recognition in the wild.	
Rey Juan Carlos University	Madrid, Spain
MSc in Computer Science and Engineering, 7.91/10	2009 - 2011
Thesis: Vehicles localization, license plate recognition and model identifi	cation.
Rey Juan Carlos University	Madrid, Spain
BSc in Computer Science, 7.19/10	2006 - 2009
Thesis: Vehicle model recognition.	
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Scientific Publications	
Anonymous submission	
Roberto Valle, José M. Buenaposada, Luis Baumela	2019
International Conference on Computer Vision, ICCV 2019, Seoul, Korea	(under review).
Cascade of CNNs for Robust Facial Landmarks Detection	
Roberto Valle, José M. Buenaposada, Luis Baumela	2019
Pattern Recognition Letters, PRL 2019. Awarded Papers Special Section	n (under review).
Face Alignment using a 3D Deeply-initialized Ensemble of R	
Roberto Valle, José M. Buenaposada, Antonio Valdés, Luis Baum	_
Computer Vision and Image Understanding, CVIU 2019 (under review).	2013
Facial Landmarks Detection Using a Cascade of Recombinat	tor Networks
Pedro D. López, Roberto Valle, Luis Baumela	2018
23rd Iberoamerican Congress on Pattern Recognition, CIARP 2018, pp.	
2018. IAPR Best Student Paper Award (https://github.com/bobeto	•
A Deeply-initialized Coarse-to-fine Ensemble of Regression	- - ,
Roberto Valle, José M. Buenaposada, Antonio Valdés, Luis Baum	_
European Conference on Computer Vision, ECCV 2018, pp. 609-624,	
Laropean Comerciae on Computer Vision, Leev 2010, pp. 003-024,	mamon, Schmany, September 6 14, 2010

Benchmarking Head Pose Estimation in-the-Wild

Elvira Amador, Roberto Valle, José M. Buenaposada, Luis Baumela

2017

22nd Iberoamerican Congress on Pattern Recognition, CIARP 2017, pp. 45-52, Valparaíso, Chile, November 7-10, 2017 (https://github.com/bobetocalo/bobetocalo_ciarp17).

Head Pose Estimation In-the-Wild Using a Random Forest

Roberto Valle, José M. Buenaposada, Antonio Valdés, Luis Baumela

2016

9th Conference on Articulated Motion and Deformable Objects, AMDO 2016, pp. 24-33, Palma de Mallorca, Spain, July 13-15, 2016 (https://github.com/bobetocalo/bobetocalo_amdo16).

Teaching Assistant

Reconocimiento de Formas

Prof. Luis Baumela

2017 - 2019

Spanish

Deep Learning

Prof. Luis Baumela

2017 - 2019

English

Languages

Spanish

Native proficiency

English

First Certificate in English (FCE), Cambridge ESOL

Scholarships Received

Menéndez Pelayo International University

Madrid, Spain

Intensive English language classes, Intermediate Level 2

2012 - 2014

Level B2 related to Common European Framework of Reference for learning languages.

Spanish Ministry of Education Scholarship

Manchester, England

Language course abroad for a minimum period of 3 weeks

2011

Research Areas

Technical University of Madrid

Perception for computers and robots group

2013 - 2019

Collaborator for the PCR group (http://www.dia.fi.upm.es/~pcr) interested in the following areas:

- Computer Vision
- Machine Learning
- Artificial Intelligence
- Deep Learning

Computer Skills

Operating Systems

Linux, Mac OS X, Windows, iOS, Android

Programming Languages

C/C++, Python, Octave/Matlab

Computer Vision Libraries

OpenCV, Tensorflow, Keras, Caffe, Boost, Scikit-Learn

Research Projects

Research HEIMDAL-UPM project (http://www.geintra-uah.org/heimdal/)

Detecting semantic data using multiple sensors in-the-wild

2017 - 2019

Spanish Ministry of Education and Competitiveness.

Research SPACES-UPM project (http://www.geintra-uah.org/spaces/)

Human behaviour supervision using multiple sensors Spanish Ministry of Education and Competitiveness.

2014 - 2016

Work Experience

The Graffter (http://www.thegraffter.com)

Madrid, Spain

Facade building localisation for an augmented reality Android and iOS app

2013 - 2015

Research and develop on algorithms for localisation of buildings (with repetitive structures) on video streams. The application renders the live camera preview frame on the display to represent a superimposed image over the building. Demo: https://www.youtube.com/watch?v=hIj3VY6du0k.

CAB Magazine Online S.L

Madrid, Spain

OCR for Spanish ID documents on video

2012

The goal of the project was to read, in short video streams, the three OCR lines of the Spanish ID documents. OCR lines appears also on other countries passports (our software is valid for this other documents also with minimal customization). In this project we developed a full prototype using C++ and OpenCV on GNU/Linux. Unfortunately the company gave up on the project before the full validation of the prototype so we have the software and the project available to any interested company. Demo: https://www.youtube.com/watch?v=3CaBmIKT06Y.