

Lorenzo Baraldi

Curriculum Vitae

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Education

2012–today **Master Degree in Computer Engineering**, *University of Modena and Reggio Emilia, Italy*.

Thesis title: “Hand Segmentation and Gesture Recognition in Ego-centric Videos”

Supervisors: Prof. Rita Cucchiara, Dr. Giuseppe Serra

Abstract: The thesis explores and proposes state-of-the-art computer vision and pattern recognition techniques for hand segmentation and gesture recognition in egocentric vision. The proposed algorithms are tested on prototype wearable sensors.

2008–2011 **Bachelor Degree in Computer Engineering**, *University of Modena and Reggio Emilia, Italy*.

Mark: 110/110 cum laude

Thesis title: “Dimensionality reduction techniques for Web datasets: PCA vs SVD”

Supervisor: Dr. Riccardo Lancellotti

2003–2008 **Scientific High School Diploma**, *Scientific High School “A. Tassoni”, Modena, Italy*.

Mark: 100/100 cum laude

Languages

Italian **Mother tongue**

English **Council of Europe Level B2 – Cambridge ESOL Certificate**

French **Basic**

Computer skills

Programming languages C, C++, Matlab, Python, Java, Javascript

Databases SQL

Libraries OpenCV, Caffe, Torch7

Publications

Title Gesture Recognition in Ego-Centric Videos using Dense Trajectories and Hand Segmentation

Authors L. Baraldi, F. Paci, G. Serra, L. Benini, R. Cucchiara
In IEEE Computer Vision and Pattern Recognition (CVPR) Embedded Vision Workshop (EVW), 2014

Title Hand Segmentation and Gesture Recognition in EGO-Vision
Authors G. Serra, M. Camurri, L. Baraldi, M. Benedetti, R. Cucchiara
In Proc. of ACM Multimedia International Workshop on Interactive Multimedia on Mobile and Portable Devices (IMMPD), 2013

Currently under review

Title Gesture Recognition using Wearable Vision Sensors to Enhance Visitors' Museum Experiences
Authors L. Baraldi, F. Paci, G. Serra, L. Benini, R. Cucchiara
Accepted with mandatory corrections in IEEE Sensors Journal

Others

Seminars, courses and events attended

"Analyzing human activities in video" – Prof. Larry Davis, Modena, Italy, 2012
"Second Short Spring School on Surveillance" – S5, Modena, Italy, 2014
"Egocentric Recognition of Objects and Activities – Prof. James M. Rehg, Modena, Italy, 2014

Journals Reviewing

Multimedia Tools and Applications (Springer)

Interests

- Computer Vision
- Pattern Recognition
- Artificial Intelligence
- Image Processing
- Deep Learning