Lorenzo Baraldi

Curriculum Vitae

✉ *baraldi.lorenzo@gmail.com*
🖥 *www.lorenzobaraldi.com*
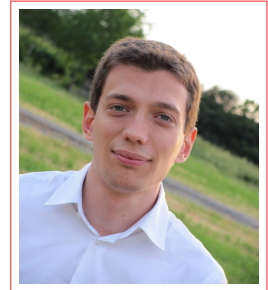
Education

2014–on going	**PhD Student**, *University of Modena and Reggio Emilia, Italy*. Supervisor: Prof. Rita Cucchiara
2012–2014	**Master Degree in Computer Engineering**, *University of Modena and Reggio Emilia, Italy*. Mark: 110/110 cum laude 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 algortihms 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	**Mothertongue**
English	**Council of Europe Level B2 – Cambridge ESOL Certificate**
French	**Basic**

Computer skills

Programming languages	C, C++, Matlab, Python, Java, Javascript, CUDA
Databases	SQL
Libraries	OpenCV, Caffe, Torch7

Publications

Title   Shot and scene detection via hierarchical clustering for re-using broadcast video
Authors L. Baraldi, C. Grana, R. Cucchiara
        CAIP 2015

Title   Scene segmentation using Temporal Clustering for Accessing and Re-using Broadcast Video
Authors L. Baraldi, C. Grana, R. Cucchiara
        ICME 2015

Title   Measuring Scene Detection Perfomance
Authors L. Baraldi, C. Grana, R. Cucchiara
        IbPRIA 2015

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

Title   Analysis and Re-use of Videos in Educational Digital Libraries with Automatic Scene Detection
Authors L. Baraldi, C. Grana, R. Cucchiara
In   Proceedings of the 11th Italian Research Conference on Digital Libraries, 2015

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

Others

Seminars, courses and events attended

"Analyzing human activities in video" – Prof. Larry Davis, 2012

"Second Short Spring School on Surveillance" – S5, 2014

"Egocentric Recognition of Objects and Activities" – Prof. James M. Rehg, 2014

"Active Contours in Image Processing and Computer Vision" – Prof. Anthony Yezzi, 2014

"Introduction to Machine Learning and Online Learning" – Prof. Roberto Paredes, 2014

Italian Research Conference on Digital Libraries - IRCDL, Bolzano 2015

"Insights from Big Data: Interaction, Design and Innovation" – Dr. Alejandro Jaimes, 2015

"A Vision for the Future of Computer Science & Engineering and Higher Education" – Dr. James C. Spohrer (Leader of IBM's Cognitive Systems Institute Group), 2015

"Innovation, Inspiration and Vision" – Prof. Arnold Smeulders - Professor at the University of Amsterdam, Director of COMMIT, Founder of EuVision, 2015

7th Iberian Conference on Pattern Recognition and Image Analysis - IbPRIA, Santiago de Compostela, 2015

International Conference on Multimedia and Expo - ICME, Torino, 2015

Teaching activities

Laboratory assistant for the Computer Vision course, Prof. Cucchiara, at University of Modena and Reggio Emilia

Laboratory assistant for the MUMET Master, at University of Modena and Reggio Emilia

Journals Reviewing

Multimedia Tools and Applications (Springer)

Interests

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