

Massimiliano Mancini

Ph.D. student in Engineering in Computer Science
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Education

Visiting Ph.D. Student

May 2018 - June 2018

Robotics Perception and Learning laboratory (RPL)
KTH Royal Institute of Technology (Stockholm, Sweden)
Supervisors: Dr. Hakan Karaoguz, Prof. Patric Jensfelt
Main topic: Development of an online incremental class learning algorithm for deep learning detection architectures on a YuMi robotic platform.

PhD in Engineering in Computer Science

November 2016 -

Sapienza University of Rome (Rome, Italy)
Supervisor: Prof. Barbara Caputo
Topic: Increasing generalization capabilities of deep learning architectures in the context of computer and robot vision.

Master of Science in Artificial Intelligence and Robotics

Sapienza University of Rome (Rome, Italy) October 2014 - October 2016

Supervisor: Prof. Barbara Caputo

Thesis title: *Deep Naïve Nearest Neighbor*.

Grade: 110/110 cum laude and excellence mention.

Bachelor degree in Computer and Electronic Engineering

University of Perugia (Perugia, Italy) October 2010 - May 2014

Supervisor: Prof. Emilio Di Giacomo

Thesis title: *Project and realization of a software system for the use of a mobile device as a webcam for computer*.

Grade: 101/110.

Other Research

Experiences

Technologies of Vision laboratory (TeV)

July 2016 - September 2016

Fondazione Bruno Kessler (Trento, Italy)

Position: Intern

Supervisor: Prof. Elisa Ricci Main topic: End-to-end training of Convolutional Neural Networks for Scene Recognition using a Naïve Bayes Nearest Neighbor based classifier.

Linguistic Computing Laboratory (LCL)

October 2015 - March 2016

Sapienza University of Rome (Rome, Italy)

Position: Student

Supervisor: Prof. Roberto Navigli Main topic: Development of an algorithm for simultaneously producing word and sense embeddings from text corpora.

Publications

2018

M. Mancini, H. Karaoguz, E. Ricci, P. Jensfelt, B. Caputo
Kitting in the Wild through Online Domain Adaptation
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2018.

M. Mancini, S. Rota Bulò, B. Caputo, E. Ricci
Best sources forward: domain generalization through source-specific nets
IEEE International Conference on Image Processing (ICIP) 2018.

M. Mancini, L. Porzi, S. Rota Bulò, B. Caputo, E. Ricci
Boosting Domain Adaptation by Discovering Latent Domains
IEEE Computer Vision and Pattern Recognition (CVPR) 2018. **(Spotlight)**

M. Mancini, S. Rota Bulò, B. Caputo, E. Ricci
Robust Place Categorization with Deep Domain Generalization
IEEE Robotics and Automation Letters, July 2018, vol. 3, n. 3., pp. 2093-2100.

2017

M. Mancini, S. Rota Bulò, E. Ricci, B. Caputo
Learning Deep NBNN Representations for Robust Place Categorization
IEEE Robotics and Automation Letters, May 2017, vol. 3, n. 2., pp. 1794-1801.
Presented at IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2017.

M. Mancini, J. Camacho-Collados, I. Iacobacci, R. Navigli
Embedding Words and Senses together via Joint Knowledge-Enhanced Training
Proceedings of the SIGNLL Conference on Computational Natural Language Learning (CoNLL) 2017, pp. 100-111.

Awards

Excellent graduate student May 2017
Sapienza University of Rome (Rome, Italy)
Award given to the best graduated students of the year.

Admission to the Ph.D. Program in Engineering in Computer Science
Sapienza University of Rome (Rome, Italy) September 2016

Admission to the Excellence Path March 2016
Sapienza University of Rome (Rome, Italy)

Services

Reviewer for the following journals:

- IEEE Transactions on Multimedia
- IET Computer Vision
- International Journal of Machine Learning and Cybernetics

- Pattern Recognition

Reviewer for the following conferences:

- IEEE International Conference on Robotics and Automation (ICRA) 2018
- ACM Multimedia Conference (ACM-MM) 2018

Student Volunteer for:

- IEEE International Conference on Computer Vision (ICCV) 2017

Skills

Languages

- Italian (mother tongue).
- English B1, Certificate by University of Perugia)

Programming

- Proficiency in: Caffe, Python, PyTorch, Java, MATLAB.
- Experience with: Keras, Android SDK, C++, Prolog, OpenGL

Other

Activities

Volunteer tourist service

Palazzo Bourbon del Monte

Monte Santa Maria Tiberina (Perugia, Italy)

Summers 2010,2011,2012,2013,2014, 2015.