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 Nave 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, E.Ricci, B. Caputo, S. Rota Bulò
Adding New Tasks to a Single Network with Weight Transformations using Binary Masks
ECCV Workshop on Transferring and Adapting Source Knowledge in Computer Vision 2018. **(Honorable mention)**

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

Honorable mention   September 2018
ECCV Workshop on Transferring and Adapting Source Knowledge in Computer Vision (Munich,Germany)
For the work *Adding New Tasks to a Single Network with Weight Transformations using Binary Masks.*

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

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.