



Paolo Russo

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OVERVIEW

Deep Learning, Data Scientist, Computer Vision

APPOINTMENTS

PostDoc Researcher 2020-present

University of Rome La Sapienza

- Deep Learning solutions for action recognition in videos

Academic/Research advisor: Prof. Fiora Pirri

PhD Student 2016-2020

University of Rome La Sapienza

- Deep Learning applied on Computer Vision tasks: Domain Adaptation and Generalization techniques for object recognition
- Synthetic Images Generation: GAN methods, auxiliary networks for depth→RGB adaptation, synthetic depth images generation via simulation software
- Multi-source Domain Adaptation algorithms for semantic segmentation of urban scenes

Academic/Research advisor: Prof. Barbara Caputo

IIT Researcher 2018-2019

Italian Institute of Technology

- Bridging between Web perceptual knowledge and Robot perceptual knowledge using Domain Adaptation techniques
- Datasets from the Web and Domain Adaptation algorithms for robot sensors data

PEER-REVIEWED JOURNAL AND CONFERENCE PAPERS

7. [P. Russo](#), T. Tommasi, B. Caputo , “[Towards Multi-source Adaptive Semantic Segmentation.](#)”, *International Conference on Image Analysis and Processing. Springer, Cham* , (2019).
6. M. Planamente, [P. Russo](#), B. Caputo , “[Leveraging over depth in egocentric activity recognition.](#)”, *Italian Conference on Robotics and Intelligent Machines, I-RIM* , (2019).
5. Fabio M. Carlucci, [P. Russo](#), T. Tommasi, B. Caputo , “[Hallucinating Agnostic Images to Generalize Across Domains.](#)”, *Proceedings of the IEEE International Conference on Computer Vision Workshops* , (2019).

4. [P. Russo](#), Fabio M. Carlucci, Tatiana Tommasi, Barbara Caputo , “[From source to target and back: symmetric bi-directional adaptive GAN](#)”, *CVPR* , (2018).
3. [P. Russo](#), FM Carlucci, SM Baharlou, B Caputo , “[\(DE\)² CO: Deep Depth Colorization](#)”, *ICRA, RAL* , (2018).
2. Fabio M. Carlucci, [P. Russo](#), Barbara Caputo , “[A deep representation for depth images from synthetic data](#)”, *ICRA* , (2017).
1. Tatiana Tommasi, Martina Lanzi, [P. Russo](#), Barbara Caputo , “[Learning the Roots of Visual Domain Shift](#)”, *ECCV* , (2016).

EDUCATION

Ph.D. in Engineering in Computer Science <i>University of Rome La Sapienza</i>	2020
Master degree in Artificial Intelligence and Robotics <i>University of Rome La Sapienza</i> 104/110.	2016
Bachelor degree in Telecommunication Engineering <i>University of Cassino</i> 108/110.	2014
High School Diploma <i>Liceo G. Galilei Mondragone</i> 100/100 cum laude.	2003

TEACHING AND TUTORING EXPERIENCES

- Tutoring and Teaching on Elective in AI, master degree in Artificial Intelligence and Robotics, University of Rome La Sapienza, DIAG department, year 2019-present.
- Teaching on Machine Learning course, Computer Engineering master degree, University of Turin, year 2018-2019.
- Tutoring and Teaching on Elective in AI, master degree in Artificial Intelligence and Robotics, University of Rome La Sapienza, DIAG department, year 2016-2017.

CONFERENCES

- Conference on Computer Vision, Pattern recognition e machine Learning (CVPL- ex-GIRPR), 2018.
- Conference on Computer Vision and Pattern Recognition (CVPR) 2018, presenting the paper accepted as poster: ”From source to target and back: symmetric bi-directional adaptive GAN”.
- IEEE International Conference on Robotics and Automation (ICRA), 2017, presenting the paper accepted as poster: ”A deep representation for depth images from synthetic data”.

RESEARCH PROJECTS

- Horizon 2020 EU Research and Innovation programme, project SECONDHANDS, grant agreement No 643950.
- FOGWARE european project proposal.
- ROBOEXNOVO - Robots learning about objects from externalized knowledge sources, project funded by the European Union's H2020 programme, grant agreement No 637076.

INVITED TALKS

- Huawei research centre, London (2019).

REVIEWER FOR INTERNATIONAL JOURNALS AND CONFERENCES

- Conference on Computer Vision and Pattern Recognition (CVPR).
- IEEE International Conference on Robotics and Automation (ICRA).
- IEEE Robotics and Automation Letters (RA-L).
- International Conference on Intelligent Robots and Systems (IROS).
- Neural Information Processing Systems (NeurIPS, ex NIPS).
- AAAI Conference on Artificial Intelligence (AAAI).

TECHNICAL SKILLS AND COMPETENCES

- Excellent of Python programming language.
- Good knowledge of Matlab programming environment and Blender rendering software.
- Good knowledge of C/C++ language.
- Very good knowledge of Linux Operating System, bash terminal.
- Excellent knowledge of Deep Learning techniques (Convolutional Neural Networks, Deep Neural Networks) and Machine Learning techniques.
- Excellent knowledge of Pytorch and Keras frameworks.
- Excellent knowledge of Computer Vision techniques: semantic segmentation, filtering, super-resolution, action recognition, as well as techniques for camera calibration and video acquisition.

LANGUAGES

- Italian - *mother tongue*
- English
 - Reading skills - *very good*
 - Writing skills - *very good*
 - Verbal skills - *fluent*