Andrea Palazzi

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SKILLS

Topics:	Computer Vision, Deep Learning, Machine Learning.
Languages:	Python, Matlab, C++, C. Proficient with Git.
Libraries:	OpenCV, PyTorch, TensorFlow, Keras, Theano.

EDUCATION

11/2016-ongoing	*PhD Student* University of Modena and Reggio Emilia, Italy. Topic: *Computer Vision and Deep Learning techniques applied to Automotive*. Supervisor: Prof. Rita Cucchiara.
2012-2015	*Master's Degree in Computer Engineering* University of Modena and Reggio Emilia, Italy. Mark: 110 / 110 cum laude.
2009-2012	*Bachelor's Degree in Computer Engineering* University of Modena and Reggio Emilia, Italy.

WORK EXPERIENCE

05/2018 – 08/2018	*Applied Scientist Intern* Amazon Berlin, Computer Vision Team
09/2015 – 10/2016	*Research Fellow at ImageLab* University of Modena and Reggio Emilia
01/2015 – 09/2015	*Software Developer in R&D (Natural Language Processing)* Internship at Expert System, Modena, Italy

TEACHING ACTIVITIES

2019	*Neural network computing, AI and machine learning for automotive,* *laboratory lecturer (UniMoRe).*
2017	*Deep Learning*, course lecturer in Master of Visual Computing (UniMoRe) [Slides]. *Computer Vision*, laboratory lecturer (UniMoRe). *Machine Learning and Pattern Recognition*, laboratory lecturer (UniMoRe).
2016	*Computer Vision*, laboratory lecturer (UniMoRe). *Machine Learning and Pattern Recognition*, laboratory lecturer (UniMoRe).

CERTIFICATES, COURSES, SCHOOLS ATTENDED

2017	Certificate of *Self-Driving Car Engineer Nanodegree* (Udacity).
2016	*RegML 2016*, summer school on Regularization Methods for Machine Learning held by Lorenzo Rosasco at IIT (Genoa)
2015	Certificate of *Machine Learning Course (*Coursera) Passed government exam and licensed as a professional engineer
2013	*Second Short Spring School in Surveillance*, organized by ImageLab Research Group at UniMoRe, Modena.

LANGUAGES

Italian:	mother tongue	German:	basic
English:	proficient	French:	basic

OTHER PROJECTS

2016 – ongoing   Open-sourcing software and teaching material on [GitHub](#).

2016   Engineering and development of a *face detection and recognition system embedded on RaspBerry Pi 2* for Nortech Engineering Srl, Bologna.

Before 2016   Pet projects I made during my time in college can be found on my [youtube channel](#).

PRESS

2016   International science magazine New Scientist, dedicates a [cover article](#) to my research about automatic recognition of non-verbal behaviours.

SELECTED PUBLICATIONS

2018   Palazzi, A., Bergamini, L., Calderara, S. & Cucchiara, R. *"End-to-end 6-DoF Object Pose Estimation through Differentiable Rasterization"*. In proceedings of the European Conference of Computer Vision Workshops (ECCVW).

Fabbri, M., Lanzi, F., Calderara, S. Palazzi, A., Vezzani, R., & Cucchiara, R. "*Learning to Detect and Track Visible and Occluded Body Joints in a Virtual World*". European Conference of Computer Vision (ECCV).

Antonio Marin-Reyes, P., Palazzi, A., Bergamini, L., Calderara, S., Lorenzo-Navarro, J., & Cucchiara, R. *"Unsupervised Vehicle Re-Identification Using Triplet Networks"*. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW).

2017   Palazzi, A., Abati, D., Calderara, S., Solera, F., & Cucchiara, R. *"Predicting the Driver's Focus of Attention: the DR (eye) VE Project"*. Transactions on Pattern Analysis and Machine Intelligence (TPAMI) .

Palazzi, A., Borghi, G., Abati, D., Calderara, S., & Cucchiara, R., *"Learning to Map Vehicles into Bird's Eye View"*. In International Conference on Image Analysis and Processing (ICIAP) 2017 (Oral Presentation, Special Mention Best Paper Award)

Palazzi, A., Solera, F., Calderara, S., Alletto, S., & Cucchiara, R. (2017, June). "*Learning Where to Attend Like a Human Driver*". In Intelligent Vehicles Symposium (IV), 2017 IEEE (pp. 920-925). IEEE.

Cornia, M., Abati, D., Baraldi, L., Palazzi, A., Calderara, S., & Cucchiara, R. (2017). Attentive Models in Vision: Computing Saliency Maps in the Deep Learning Era. In *16th International Conference of the Italian Association for Artificial Intelligence.* (Oral Presentation)

2016   Palazzi, A., Calderara, S., Bicocchi, N., Vezzali, L., di Bernardo, G. A., Zambonelli, F., & Cucchiara, R. (2016, September). *"Spotting prejudice with nonverbal behaviours"*. In Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (pp. 853-862). ACM. (Oral Presentation)

Alletto, S., Palazzi, A., Solera, F., Calderara, S., & Cucchiara, R. (2016). *"Dr (Eye) Ve: A dataset for attention-based tasks with applications to autonomous and assisted driving"*. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW).