Marco Toldo

Curriculum Vitae

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Experience

10.2019 – Today **Ph.D. Student in Information Engineering**, *University of Padova*.
Research area: Unsupervised Domain Adaptation and Continual Learning for Computer Vision applications.

2019 – Today **Teaching Assistant**, *University of Padova*.
Teaching assistant for M.Sc. courses of Computer Vision (a.y. 2019/20, 2020/21 and 2021/22) and Machine Learning (a.y. 2019/20 and 2020/21)

2019 – Today **Peer Review Activity**.
Reviewer for *IEEE Transactions on Multimedia*, *Image and Vision Computing* and *Machine Learning* journals and *International Conference of Pattern and Recognition*.

05.2021 – 12.2021 **Internship**, *Samsung R&D Institute UK*.
Topic: Applied research on foundations and challenges of artificial intelligence to develop state-of-the-art solutions for real-world large-scale problems, with a focus on machine learning and computer vision fields

03.2019 – 09.2019 **Internship**, *LTTM Laboratory at the University of Padova*.
Topic: Unsupervised Domain Adaptation for Semantic Segmentation with Mobile Deep Learning Architecture

Education

09.2017 – 09.2019 **Master's degree in ICT for Internet and Multimedia**, *University of Padova*, *110/110 with honors*.

Topics: Image and Video Processing, Machine Learning, Telecommunication
GPA: 30/30

Thesis: Generative Adversarial Models for Unsupervised Domain Adaptation in Semantic Segmentation

09.2014 – 09.2017 **Bachelor's degree in Information Engineering**, *University of Padova*, *110/110 with honors*.

Thesis: Applications of Millimeter Wave Transmission to the Development of 5G Networks

09.2008 – 07.2014 **High school diploma**, *Liceo Scientifico Ippolito Nievo*, *100/100*.

Skills and Qualifications

Languages	Italian, Mother-tongue English, B2/C1
Programming Languages	Python, Matlab, Java, C++, Bash
Softwares	TensorFlow, PyTorch, Latex

Publications

M. Toldo, U. Michieli, G. Agresti and P. Zanuttigh, Unsupervised Domain Adaptation for Mobile Semantic Segmentation based on Cycle Consistency and Feature Alignment, in *Image and Vision Computing*, 2020.

M. Toldo, A. Maracani, U. Michieli and P. Zanuttigh, Unsupervised Domain Adaptation in Semantic Segmentation: A Review, in *Technologies*, 2020.

T. Spadotto, M. Toldo, U. Michieli and P. Zanuttigh, Unsupervised Domain Adaptation with Multiple Domain Discriminators and Adaptive Self-Training, in *International Conference on Pattern Recognition*, 2021.

M. Toldo, U. Michieli and P. Zanuttigh, Unsupervised Domain Adaptation in Semantic Segmentation via Orthogonal and Clustered Embeddings, in *Winter Conference on Applications of Computer Vision*, 2021.

U. Michieli, M. Toldo and P. Zanuttigh, Domain Adaptation and Continual Learning in Semantic Segmentation, in *Advanced Methods and Deep Learning in Computer Vision*, Elsevier, November 2021.

F. Barbato, M. Toldo, U. Michieli and P. Zanuttigh, Latent Space Regularization for Unsupervised Domain Adaptation in Semantic Segmentation, in *Computer Vision and Pattern Recognition Workshop*, 2021.

A. Maracani, U. Michieli, M. Toldo and P. Zanuttigh, Recall: Replay-based continual learning in semantic segmentation, in *International Conference on Computer Vision*, 2021.

M. Toldo and M. Ozay, Bring Evanescent Representations to Life in Lifelong Class Incremental Learning, to appear in *Computer Vision and Pattern Recognition*, 2022.