Massimiliano Mancini

Assistant Professor (RTD-a) @ Multimedia and Human Understanding Group University of Trento, (Trento, Italy)

ELLIS member

e-mail: massimiliano.mancini@unitn.it website: https://mancinimassimiliano.github.io/

Education

Ph.D. in Engineering in Computer Science November 2016 - December 2020

Sapienza University of Rome (Rome, Italy) Advisor: Prof. Barbara Caputo, Prof. Elisa Ricci

Thesis title: Towards Recognizing New Semantic Concepts in New Visual Domains

External reviewers: Prof. Bernt Schiele, Prof. Timothy M. Hospedales

Award date: 7/12/2020 Grade: Excellent cum laude.

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 Bayes 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.

Ph.D. Schools and Programs

ELLIS PhD Program

March - June 2020

European Laboratory for Learning and Intelligent Systems (ELLIS Society)

Primary Host: Prof. Barbara Caputo Exchange Host: Prof. Zeynep Akata

Main topic: Zero-Shot Adaptation and Learning.

FBK International PhD Program

January 2017 - December 2020

Fondazione Bruno Kessler (Trento, Italy) Internal advisor: Prof. Elisa Ricci

International Computer Vision Summer School

July 2017

Scicli, Italy

Organizers: Prof. Roberto Cipolla (University of Cambridge, UK), Prof. Sebastiano Battiato (University of Catania, Italy), Prof. Giovanni Maria Farinella (University of Catania, Italy).

Regularization Methods for Machine Learning June 27th - July 1st 2016 Genova, Italy

Organizers: Dr. Alessandro Rudi (University of Genova, Italy), Raffaello Camoriano (Italian Institute of Technology and University of Genova, Italy), Dr. Silvia Villa (Italian Institute of Technology, Italy).

Research Experience

Multimedia and Human Understanding Group

April 2023 - present

University of Trento (Trento, Italy) Position: Assistant Professor (RTD-a)

Main topic: Transfer learning, continual learning, domain generalization, open vo-

cabulary recognition

Explainable Machine Learning Laboratory

December 2020 - March 2023

University of Tübingen (Tübingen, Germany)

Position: Postdoctoral Researcher Supervisor: Prof. Zeynep Akata

Main topic: Zero-Shot Learning and Compositionality.

Explainable Machine Learning Laboratory

July - December 2020

University of Tübingen (Tübingen, Germany)

Position: Ph.D. Researcher Supervisor: Prof. Zeynep Akata

Main topic: Zero-Shot Learning and Compositionality.

Visual and Multimodal Applied Learning (VANDAL) May 2019 - May 2020

Istituto Italiano di Tecnologia (Turin, Italy)

Position: Research Fellow

Head of the Laboratory: Prof. Barbara Caputo

Main topic: Incremental Class Learning for Semantic Segmentation.

Robotics Perception and Learning laboratory (RPL) August-September 2018

KTH Royal Institute of Technology (Stockholm, Sweden)

Position: Visiting Ph.D. Student

Supervisors: Dr. Hakan Karaoguz, Prof. Patric Jensfelt

Main topic: Application of an online deep incremental class learning algorithm for

object detection on a YuMi robotic platform.

Robotics Perception and Learning laboratory (RPL) May - June 2018

KTH Royal Institute of Technology (Stockholm, Sweden)

Position: Visiting Ph.D. Student

Supervisors: Dr. Hakan Karaoguz, Prof. Patric Jensfelt

Main topic: Development of an online deep incremental class learning algorithm for

object classification and detection.

Technologies of Vision laboratory (TeV)

January 2017 - January 2020

Fondazione Bruno Kessler (Trento, Italy)

Position: Research Collaborator

Head of the Laboratory: Dr. Stefano Messelodi

Main topic: Generalization and Robustness of Convolutional Neural Networks.

Technologies of Vision laboratory (TeV)

July - 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 Recog-

nition using a Naïve Bayes Nearest Neighbor-based classifier.

Linguistic Computing Laboratory (LCL)

October 2015 - March 2016

Sapienza University of Rome (Rome, Italy)

Position: Master Student

Supervisor: Prof. Roberto Navigli

Main topic: Development of an algorithm for simultaneously producing word and

sense embeddings from text corpora.

Awards and Acknowledgements

Ph.D. Thesis Award 2020

April 2022

Sapienza University of Rome (Rome, Italy)

Awarded to the best Ph.D. theses defended at the Sapienza University of Rome between January 2017 and December 2020.

Excellent Ph.D. student

March 2021

Fondazione Bruno Kessler International PhD Program (Trento, Italy) Awarded to Ph.D. students fulfilling research excellence criterions.

Outstanding editor

• International Conference on Robotics and Automation (ICRA) 2024

Outstanding reviewer

- Advances in Neural Information Processing Systems (NeurIPS) 2023
- International Conference on Machine Learning 2022
- IEEE/CVF International Conference on Computer Vision (ICCV) 2019, 2021
- IEEE/CVF International Conference on Computer Vision and Pattern Recognition (CVPR) 2019, 2021, 2022

Doctoral Consortium mentee

June 2020

IEEE/CVF International Conference on Computer Vision and Pattern Recognition Mentor: Prof. Bernt Schiele

Best Paper Award 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.

Reading Group Competition Winner

July 2017

International Computer Vision Summer School 2018 (Scicli, Italy)

Member of the winning team of the reading group competition, with Julian Zilly, Amit Boyarski, Micael Carvalho, Amir Atapour Abarghouei, Konstantinos Amplianitis, Aleksandr Krasnov, Hernán Gonzalez, Riccardo Spezialetti, Carlos Sampedro Pérez.

Excellent graduate student

May 2017

Sapienza University of Rome (Rome, Italy)

Awarded to the best M.Sc. graduate students of the year.

Participation to Research Projects

Compressed Vision Language Models for Lightweight Compositional Generalization (COMP2GEN)

Call: Italian SuperComputing Resource Allocation (ISCRA) - Call B

Founder: CINECA (Italy) Role: Principal Investigator

Period: 2024-2025

Budget: 1'868'192 standard computational hours

Trustworthy and Dynamic Compositional Recognition

Call: Innovation Grants for Science/Life Science

Founder: University of Tübingen (Tübingen, Germany)

Role: Principal Investigator

Period: 2022-2023 Budget: 190'108 €

Deeply Explainable Intelligent Machines (DEXIM)

Principal Investigator: Prof. Zeynep Akata

Call: ERC Starting Grant

Founder: European Research Council

Role: Researcher

Period of participation: 2020-2022

Robots Learning about Objects

from Externalized Knowledge Sources (RoboExNovo)

Principal Investigator: Prof. Barbara Caputo

Call: ERC Starting Grant

Founder: European Research Council

Role: Researcher

Period of participation: 2017-2020

Services:

Membership

- Member of the ELLIS Society
- Member of the ELLIS Unit Trento
- Member of the Computer Vision Foundation

Editorial activity:

- Guest Editor for the Special Issue on Multimodal Learning, International Journal of Computer Vision
- Associate Editor for Computer Vision and Image Understanding
- Action Editor for Transactions on Machine Learning Research

Conferences organization:

- Publicity/Web Chair for International Conference on Image Analysis and Processing (ICIAP) 2019
- Area Chair for CVPR 2024
- Area Chair for ECCV 2024
- Area Chair for NeurIPS 2024
- Associate Editor (Visual Perception and Learning) for ICRA 2024

Workshops organization:

• 1st International Workshop on Industrial Machine Learning (at ICPR 2020)

- 2nd International Workshop on Industrial Machine Learning (at ICPR 2022)
- 5th Multimodal Learning and Applications Workshop (at CVPR 2022)
- Workshop on Weakly Supervised Computer Vision (at Deep Learning Indaba 2022)
- Explainability in Machine Learning Workshop (Tübingen, March 2023)
- 1st Workshop on Green Foundation Models (at ECCV 2024)

Tutorials organization:

- Transferring Knowledge Across Domains: an Introduction to Deep Domain Adaptation (at ICIAP 2019)
- Visual Recognition Beyond the Comfort Zone: Adapting to Unseen Concepts on the Fly (at ICCV 2023)

Symposiums organization:

• Computer Vision Trento Symposium (Trento, June 2024)

Evaluator for the following PhD Programs:

- International Max Planck Research School for Intelligent Systems (IMPRS-IS) 2021-2023
- European Laboratory for Learning and Intelligent Systems (ELLIS) 2022

Evaluator for the following PhD Theses:

- Knowledge Transferability for Data-Efficient Deep Learning Andrea Maracani
- Spatial Reasoning with Graph Neural Networks
 Francesco Giuliari

Reviewer for the following journals:

- IEEE Transactions on Pattern Analysis and Machine Intelligence
- International Journal of Computer Vision
- IEEE Transactions on Image Processing
- IEEE Transactions on Multimedia
- Computer Vision and Image Understanding
- IET Computer Vision
- International Journal of Machine Learning and Cybernetics
- Pattern Recognition
- IEEE Robotics and Automation Letters
- Machine Vision and Applications
- Engineering Reports
- Frontiers in Computer Science
- IEEE Transaction on Robotics
- Transactions on Machine Learning Research
- IEEE Transactions on Neural Networks and Learning Systems
- Neural Networks

Reviewer for the following conferences:

• IEEE International Conference on Robotics and Automation (ICRA) 2018-2022

- ACM Multimedia Conference (ACM-MM) 2018-2022
- IEEE/CVF International Conference on Computer Vision and Pattern Recognition (CVPR) 2019-2023
- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2019-2022
- IEEE International Conference on Computer Vision (ICCV) 2019-2023
- Advances in Neural Information Processing Systems (NeurIPS) 2019-2023
- AAAI Conference on Artificial Intelligence (AAAI) 2020-2021
- International Conference on Pattern Recognition (ICPR) 2020-2022
- European Conference on Computer Vision (ECCV) 2020-2022
- Asian Computer Vision Conference (ACCV) 2020
- German Conference on Pattern Recognition (GCPR) 2020
- Winter Conference on Applications of Computer Vision (WACV) 2021-2023
- \bullet International Conference on Learning Representations (ICLR) 2022
- International Conference on Machine Learning (ICML) 2022-2023
- Conference on Lifelong Learning Agents (CoLLAs) 2022
- British Machine Vision Conference (BMVC) 2022
- IEEE Conference on Artificial Intelligence (CAI) 2023

Reviewer/member of the program committee for the following workshops:

- Transferring Knowledge and Adapting Source Knowledge in Computer Vision and VisDA Challenge (at ECCV 2018)
- Transferring and Adapting Source Knowledge in Computer Vision (at ECCV 2020)
- Learning from Limited or Imperfect Data (at CVPR 2021)
- Towards a Complete Analysis of People: From Face and Body to Clothes (at ICIAP 2021)
- Learning with Limited Labelled Data for Image and Video Understanding (at CVPR 2022)
- Towards a Complete Analysis of People: From Face and Body to Clothes (at ICPR 2022)
- 6th Multimodal Learning and Applications Workshop (at CVPR 2023)
- Workshop on Computer Vision for Human Motion Analysis (at IEEE International Conference on Multimedia and Expo)
- Foundation models Creators meet Users (at ECCV 2024)

Student Volunteer for:

• IEEE International Conference on Computer Vision (ICCV) 2017

Publications

Journal papers

- [J1] M. Mancini, S. Rota Bulò, E. Ricci, B. Caputo Learning Deep NBNN Representations for Robust Place Categorization IEEE Robotics and Automation Letters, 2017, vol. 2, n. 3, pp. 1794-1801. Presented at IROS 2017.
- [J2] M. Mancini, S. Rota Bulò, B. Caputo, E. Ricci Robust Place Categorization with Deep Domain Generalization IEEE Robotics and Automation Letters, 2018, vol. 3, n. 3, pp. 2093-2100.
- [J3] M. Mancini, L. Porzi, S. Rota Bulò, B. Caputo, E. Ricci Inferring Latent Domains for Unsupervised Deep Domain Adaptation IEEE Transactions on Pattern Analysis & Machine Intelligence, 2019, vol. 43, n. 2, pp. 485-498.
- [J4] D. Fontanel, F. Cermelli, M. Mancini, S. Rota Bulò, E. Ricci, B. Caputo Boosting Open World Recognition by Clustering IEEE Robotics and Automation Letters, 2020, vol. 5, n. 4, pp. 5985-5992.
- [J5] M. Mancini, E. Ricci, B. Caputo, S. Rota Bulò Boosting Binary Masks for Multi-Domain Learning through Affine Transformations Machine Vision and Applications, 2020, vol. 31, n. 6, pp. 1-14.
- [J6] D. Fontanel, F. Cermelli, M. Mancini, B. Caputo On the Challenges of Open World Recognition under Shifting Visual Domains IEEE Robotics and Automation Letters, 2020, vol. 6, n. 2, pp. 604-611.
- [J7] F. Cermelli, M. Mancini, S. Rota Bulò, E. Ricci, B. Caputo Modelling the Background for Incremental and Weakly-Supervised Semantic Segmentation IEEE Transactions on Pattern Analysis & Machine Intelligence, 2021, vol. 44, n. 12, pp. 10099-10113.
- [J8] M. Mancini, M. F. Naeem, Y. Xian, Z. Akata Learning Graph Embeddings for Open World Compositional Zero-Shot Learning IEEE Transactions on Pattern Analysis & Machine Intelligence, 2024, vol. 46, no. 3, pp. 1545-1560.
- [J9] Y. Chen, M. Mancini, X. Zhu, Z. Akata Semi-Supervised and Unsupervised Deep Visual Learning: A Survey IEEE Transactions on Pattern Analysis & Machine Intelligence, 2022 (in press).
- [J10] A. Chaudhuri, M. Mancini, Z. Akata, A. Dutta Relational Proxies: Fine-Grained Relationships as Zero-Shot Discriminators IEEE Transactions on Pattern Analysis & Machine Intelligence, 2024 (in press).

Conference papers

- [C1] 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.
- [C2] 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.

- [C3] 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.
- [C4] 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)
- [C5] M. Mancini, L. Porzi, F. Cermelli, B. Caputo Discovering Latent Domains for Unsupervised Domain Adaptation Through Consistency International Conference on Image Analysis and Processing (ICIAP) 2019.
- [C6] L. O. Vasconcelos, M. Mancini, D. Boscaini, B. Caputo, E. Ricci Structured Domain Adaptation for 3D Keypoint Estimation International Conference on 3D Vision (3DV) 2019. (oral)
- [C7] F. Cermelli, M. Mancini, E. Ricci, B. Caputo The RGB-D Triathlon: Towards Agile Visual Toolboxes for Robots IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2019.
- [C8] M. Mancini, S. Rota Bulò, B. Caputo, E. Ricci AdaGraph: Unifying Predictive and Continuous Domain Adaptation through Graphs IEEE/CVF Computer Vision and Pattern Recognition (CVPR) 2019. (oral)
- [C9] M. Mancini, H. Karaoguz, E. Ricci, P. Jensfelt, B. Caputo Knowledge is Never Enough: Towards Web Aided Deep Open World Recognition IEEE International Conference on Robotics and Automation (ICRA) 2019.
- [C10] L. O. Vasconcelos, M. Mancini, D. Boscaini, S. Rota Bulò, B. Caputo, E. Ricci Shape Consistent 2D Keypoint Estimation under Domain Shift International Conference on Pattern Recognition (ICPR) 2020.
- [C11] M. Mancini, Z. Akata, E. Ricci, B. Caputo Towards Recognizing Unseen Categories in Unseen Domains European Computer Vision Conference (ECCV) 2020.
- [C12] F. Cermelli, M. Mancini, S. Rota Bulò, E. Ricci, B. Caputo Modelling the Background for Incremental Learning in Semantic Segmentation IEEE/CVF Computer Vision and Pattern Recognition (CVPR) 2020.
- [C13] F. Cermelli, M. Mancini, Y. Xian, Z. Akata, B. Caputo Prototype-based Incremental Few-Shot Semantic Segmentation British Machine Vision Conference (BMVC) 2021.
- [C14] M. Mancini, M. F. Naeem, Y. Xian, Z. Akata Open World Compositional Zero-Shot Learning IEEE/CVF Computer Vision and Pattern Recognition (CVPR) 2021.
- [C15] S. Karthik, M. Mancini, Z. Akata KG-SP: Knowledge Guided Simple Primitives for Open World Compositional Zero-Shot Learning IEEE/CVF Computer Vision and Pattern Recognition (CVPR) 2022.
- [C16] A. Chaudhuri, M. Mancini, Z. Akata, A. Dutta Relational Proxies: Emergent Relationships as Fine-Grained Discriminators Neural Information Processing Systems (NeurIPS) 2022. (spotlight)

- [C17] A. Chaudhuri, M. Mancini, Y. Chen, Z. Akata, A. Dutta Cross-Modal Fusion Distillation for Fine-Grained Sketch-Based Image Retrieval British Machine Vision Conference (BMVC) 2022.
- [C18] S. Alaniz, M. Mancini, A. Dutta, D. Marcos, Z. Akata Abstracting Sketches through Simple Primitives European Computer Vision Conference (ECCV) 2022.
- [C19] U. Upadhyay, S. Karthik, Y. Chen, M. Mancini, Z. Akata BayesCap: Bayesian Identity Cap for Calibrated Uncertainty in Frozen Neural Networks European Computer Vision Conference (ECCV) 2022.
- [C20] U. Upadhyay, S. Karthik, M. Mancini, Z. Akata ProbVLM: Probabilistic Adapter for Frozen Vison-Language Models International Computer Vision Conference (ICCV) 2023.
- [C21] A. Christensen, M. Mancini, A. S. Koepke, O. Winther, Z. Akata Image-free Classifier Injection for Zero-Shot Classification International Computer Vision Conference (ICCV) 2023.
- [C22] S. Alaniz, M. Mancini, Z. Akata Iterative Superquadric Recomposition of 3D Objects from Multiple Views International Computer Vision Conference (ICCV) 2023.
- [C23] R. van der Klis, S. Alaniz, M. Mancini, C. Dantas, D. Ienco, Z. Akata, D. Marcos PDiscoNet: Semantically consistent part discovery for fine-grained recognition International Computer Vision Conference (ICCV) 2023.
- [C24] A. Chaudhuri, M. Mancini, Z. Akata, A. Dutta Transitivity Recovering Decompositions: Interpretable and Robust Fine-Grained Relationships Neural Information Processing Systems (NeurIPS) 2023.
- [C25] A. Conti, E. Fini, M. Mancini, P. Rota, Y. Wang, E. Ricci Vocabulary-free Image Classification Neural Information Processing Systems (NeurIPS) 2023.
- [C26] S. Karthik, K. Roth, M. Mancini, Z. Akata Vision-by-Language for Training-Free Compositional Image Retrieval International Conference on Learning Representations (ICLR) 2024.
- [C27] L. Zanella, W. Menapace, M. Mancini, Y. Wang, E. Ricci Harnessing Large Language Models for Training-free Video Anomaly Detection IEEE/CVF Computer Vision and Pattern Recognition (CVPR) 2024.
- [C28] M. Farina, M. Mancini, E. Cunegatti, G. Liu, G. Iacca, E. Ricci MULTIFLOW: Shifting Towards Task-Agnostic Vision-Language Pruning IEEE/CVF Computer Vision and Pattern Recognition (CVPR) 2024.
- [C29] M. d'Incà, E. Peruzzo, M. Mancini, D. Xu, V. Goel, X. Xu, Z. Wang, H. Shi, N. Sebe OpenBias: Open-set Bias Detection in Text-to-Image Generative Models IEEE/CVF Computer Vision and Pattern Recognition (CVPR) 2024. (highlight)
- [C30] T. De Min, M. Mancini, S. Lathuilière, S. Roy, E. Ricci Less is more: Summarizing Patch Tokens for efficient Multi-Label Class-Incremental Learning Third Conference on Lifelong Learning Agents (COLLAs) 2024.

Workshop papers

- [W1] 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. (best paper award honorable mention)
- [W2] S. Karthik, M. Mancini, Z. Akata Revisiting Visual Product for Compositional Zero-Shot Learning NeurIPS Workshop on Distribution Shifts 2021.
- [W3] A. Dutta, M. Mancini, Z. Akata Concurrent Discrimination and Alignment for Self-Supervised Feature Learning ICCV Workshop on Multi-Task Learning in Computer Vision 2021.
- [W4] G. Pastore, F. Cermelli, Y. Xian, M. Mancini, Z. Akata, B. Caputo A Closer Look at Self-training for Zero-Label Semantic Segmentation CVPR Workshop on Learning from Limited and Imperfect Data 2021.
- [W5] D. Caldarola, M. Mancini, F. Galasso, M. Ciccone, E. Rodolà, B. Caputo Cluster-driven Graph Federated Learning over Multiple Domains CVPR Workshop on Learning from Limited and Imperfect Data 2021.
- [W6] D. Fontanel, F. Cermelli, M. Mancini, B. Caputo Detecting Anomalies in Semantic Segmentation with Prototypes CVPR Workshop on Safe and Artificial Intelligence for Automated Driving 2021.
- [W7] I. Cugu, M. Mancini, Y. Chen, Z. Akata Attention Consistency on Visual Corruptions for Single-Source Domain Generalization CVPR Workshop on Learning with Limited Labelled Data for Image and Video Understanding 2022.
- [W8] T. De Min, M. Mancini, K. Alahari, X. Alameda-Pineda, E. Ricci On the Effectiveness of LayerNorm Tuning for Continual Learning in Vision Transformers The First Workshop on Visual Continual Learning at ICCV 2023. (oral)

Others

• M. Mancini

Towards Recognizing New Semantic Concepts in New Visual Domain Sapienza Università Editrice, 2022 Ph.D. Thesis published for winning the Sapienza Ph.D. Thesis Award 2020. Volume 124, pages 280.

Presentations at conferences and workshops

Oral/spotlights [J1],[C2],[C4],[C8],[W1]

Posters [C5],[C9],[C15],[C18],[C19],[C20],[C21],[C22],[C24],[C25],[W7]

Virtual [C11],[C12],[C14]

Invited Talks

AdaGraph: Unifying Predictive and Continuous Domain Adaptation through Graphs

International Conference on Image Analysis and Processing (ICIAP) 2019. CVPL highlights, short presentation.

Open World Compositional Zero-Shot Learning

EPFL Computer Vision Talks, Virtual, June 2021.

Compositional Zero-Shot Learning

2D3DAI, Virtual, April 2021.

On the challenges of Open World Compositional Zero-Shot Learning

Bosch Industry-on-Campus (IoC) Lab, Virtual, May 2022.

Compositional Zero-Shot Learning

National AI PhD Fall School, Turin, November 2023.

Vocabulary-free Image Classification

1st Year Joint workshop of FAIR and ELLIS, Trento, December 2023.

Opening multimodal doors with language: from recognition to bias detection

7th Multimodal Learning and Applications Workshop (at CVPR 2024), Seattle, June 2024.

Teaching

Deep Learning beyond the Closed World

July 2021

Summer School on Complex Networks and Telecommunications

Lake Como School of Advanced Studies (Como, Italy)

Level: Ph.D. Role: Lecturer

Seminars on Learning with Limited Labeled Data October-December 2021

Faculty of Computer Science

University of Tübingen (Tübingen, Germany)

Level: Master and Bachelor Role: Teaching assistant

Credits: 3

Duration: 28 hours

Visual Recognition beyond the Closed World

 ${\bf August\text{-}September\ 2023}$

Information Engineering and Computer Science Doctoral School

University of Trento (Trento, Italy)

Level: Ph.D. Role: Lecturer Credits: 3

Duration: 20 hours

Trends and Applications of Computer Vision

Winter Semester 2023/2024

Master in Artificial Intelligence Systems University of Trento (Trento, Italy)

Level: Master Role: Co-lecturer

Credits: 6

Duration: 48 hours (teaching 20)

Supervision

Ph.D. students: • Simone Calderella (University of Trento)

•	Simone Caldarella (University of Trento)	2024 - ongoing
•	Thomas De Min (University of Trento)	2024 - ongoing

Master students:

aster students:	
• Fabio Cermelli (Politecnico di Torino)	2018
• Dario Fontanel (Politecnico di Torino)	2019
• Alessandro Rizzuto (University of Trento)	2020
• Debora Caldarola (Politecnico di Torino)	2020
• Giuseppe Pastore (Politecnico di Torino)	2020
• Robin M. Schmidt (University of Tübingen)	2021
• Michael Gröger (University of Tübingen)	2023

${\bf Bibliometric}$

indices

Google Scholar: h-index 21, n. citations 1835

Scopus: h-index 16, n. citations 917 **ORCID Number**: 0000-0001-8595-9955

Others

Languages

- Italian (mother tongue)
- English (professional proficiency)