Fabio Cermelli

Ph.D. Student

I started the **Ph.D.** in Computer and Control Engineering in November 2019 at the **Politecnico di Torino**, in collaboration with the **Italian Institute of Technology.** My research focus on **computer vision** and **deep learning**, with a particular interest in **incremental learning**. My goal is to employ these technologies in agriculture to automate expensive and labour-intensive activities, to reduce costs and environmental impact. Besides my research activities, I am member and **past president** of the MuNu chapter of IEEE-HKN.

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EDUCATION

Ph.D. in Computer and Control Engineering
Politecnico di Torino, Turin, Italy
11/2019 - present
The Ph.D. focus on reducing the cost of training semantic segmentation models. I am working under the supervision of prof. Barbara Caputo and in collaboration with the Italian Institute of Technology.

M.Sc. in Software Engineering - cum laude
Politecnico di Torino, Turin, Italy
10/2016 - 11/2018

B.Sc. in Software Engineering - cum laude
Politecnico di Torino, Turin, Italy
10/2013 - 7/2016

EXPERIENCE

Member of IEEE-HKN MuNu Chapter
Politecnico di Torino, Turin, Italy
10/2016 – present
HKN is an honor society of IEEE which promote and recognise excellence in the electronic and computer engineering fields. Being president of the chapter (*10/2017 - 9/2018*) gave me the opportunity to improve my leadership skill and the ability to plan and organise the teamwork.

Visiting Researcher
Fondazione Bruno Kessler, Trento, Italy
04/2019 – 06/2019

Research Fellow
Italian Institute of Technology, Turin, Italy
02/2019 – 06/2019

Smart Spaces Application Developer
TIM (Telecom Italia), Turin, Italy
02/2019 – 06/2019

PROJECTS

RAX
CLIK, Politecnico di Torino, Turin, Italy
09/2017 – 12/2017
RAX is a device designed for meeting rooms. It is a smart camera connected to a mechanical support that can be controlled trough Amazon Alexa voice commands. It was realised during the first CLIK hackathon and was presented at the Maker Faire Rome 2017 edition.

T4T, Interface for Constructive Art
DAUIN, Politecnico di Torino, Turin, Italy
8/2016 – 2/2017
We develop a new interface for 3D virtual objects manipulation for constructive art in augmented reality. This project was presented at the IEEE-3DUI Conference. To see more about the project visit youtu.be/CwncL4o5HGw.

LANGUAGES

Italian ■ ■ ■ ■ ■

English ■ ■ ■ □ □

LIST OF PUBLICATIONS

Modeling the Background for Incremental Learning in Semantic Segmentation
F. Cermelli, M. Mancini, S. Rota Bulò, E. Ricci, B. Caputo,
2020 International Conference on Computer Vision and Patter Recognition (CVPR)
06-2020 (accepted, not yet published)

The RGB-D Triathlon: Towards Agile Visual Toolboxes for Robots
F. Cermelli, M. Mancini, E. Ricci, B. Caputo,
2019 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
11-2019

Discovering Latent Domains for Unsupervised Domain Adaptation Through Consistency
M. Mancini, L. Porzi, F. Cermelli, B. Caputo
2019 International Conference on Image Analysis and Processing (ICIAP)
09-2019

T4T: Tangible interface for tuning 3D object manipulation tools
A. Cannavo, F. Cermelli, V. Chiaramida, G. Ciccone, F. Lamberti, P. Montuschi, G. Paravati
2017 IEEE Symposium on 3D User Interfaces
03-2017