Gabriele Goletto

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Introduction

I am a second year PhD student in Computer Vision at the Polytechnic University of Turin. I am interested in online understanding and domain adaptation in egocentric videos. I am seeking a research internship to apply and expand my knowledge and skills in the egocentric vision field.

Education

University of Bristol — Bristol, UK
*ELLIS PhD Visiting Exchange, supervised by Professor **Dima Damen***
Topic: Long-form egocentric video understanding
Feb 2023 – Jul 2023

Polytechnic University of Turin — Turin, Italy
*PhD in Computer Science, supervised by Professor **Barbara Caputo***
Topic: Low-footprint online egocentric video understanding
Jan 2022 – ongoing

Polytechnic University of Turin & Polytechnic University of Milan — Turin & Milan, Italy
Master of Science in Data Science and Engineering - Final Grade: 110 Cum Laude / 110
*Supervised by Professor **Barbara Caputo** & Professor **Matteo Matteucci***
Oct 2019 – Oct 2021

Polytechnic University of Turin — Turin, Italy
Bachelor of Science in Computer Engineering - Final Grade: 110 Cum Laude / 110
Oct 2016 – Sept 2020

Publications & Research work

Publications

- **Gabriele Goletto**, M. Planamente, B. Caputo, and G. Averta, "Bringing Online Egocentric Action Recognition into the wild", in IEEE Robotics and Automation Letters 2023 (Q1 Journal). [**Paper**] [**Page**]
  Tackling all the challenges to deploy egocentric action recognition models in real applications, I contributed by:
  - Creating a benchmark of popular action recognition models working under real-world constraints
  - Deploying and measured models inference time and power consumption on different devices
- C. Plizzari, M. Planamente, **Gabriele Goletto**, M. Cannici, E. Gusso, M. Matteucci, and B. Caputo, "E^2(GO)MOTION: Motion augmented event stream for egocentric action recognition", in CVPR 2022 (Top Conference). [**Paper**] [**Dataset**]
  Proposing an event extension of the Epic-Kitchens dataset and testing the performance of the event data in the egocentric action recognition setting both in a multi-modal and uni-modal fashion, I contributed by:
  - Generating the event counterpart of the popular EPIC-Kitchens dataset and the VoxelGrid representations
  - Computing the baselines of common action recognition models performance on event data
- M. Planamente, **Gabriele Goletto**, G. Trivigno, G. Averta, and B. Caputo, "PoliTO-IIT-CINI Submission to the EPIC-KITCHENS-100 Unsupervised Domain Adaptation Challenge for Action Recognition", in Tenth International Workshop on Egocentric Perception, Interaction and Computing @ CVPR 2022 (workshop). [**Paper**]
  Achieving 3rd position in the Unsupervised Domain Adaptation Challenge for Action Recognition on **Epic-Kitchens**

Research work

- I collaborated in the **research contract** among PoliTO and "Sony Europe B.V." and contributed by
  - Generating an object detection dataset for the specific industrial purposes
  - Training and deploying low footprint object detection models on IMX500 sensors

Technical Skills

Programming Languages : Python, C, R, Java, JavaScript

Frameworks & Libraries : PyTorch, Tensorflow, NumPy, Pandas, React.js