

Gianluca Scarpellini

COMPUTER VISION RESEARCHER AND ENTHUSIAST LEARNER

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Looking for new collaborations in Computer Vision and Deep Learning

Education

Università degli studi di Milano - Bicocca [notes repository]

Milano, Italy

B.S. IN COMPUTER SCIENCE (GPA 29.5/30, FINAL GRADE 110L/110)

Sep 2015 - Jul 2018

M.S. IN COMPUTER SCIENCE (GPA 29.45/30, FINAL GRADE 110L/110)

Oct 2018 - Oct 2020

Computer Vision, Robotic vision, and Machine learning

Udacity

DEEP REINFORCEMENT LEARNING [PROJECTS REPOSITORY]

Mar 2020 - Apr 2020

SENSOR FUSION ENGINEERING [PROJECTS REPOSITORY]

Apr 2020 - May 2020

Experience

Ph.D. in Computer Vision

Genova, Italy

ITALIAN INSTITUTE OF TECHNOLOGY

Mar 2020 -

Research on event-cameras, reinforcement learning, and self-supervision for robotics.

Supervisors: Dr. Alessio Del Bue (Computer Vision) and Dr. Lorenzo Natale (Robotics)

DL Research Intern

Milano, Italy

ARGO VISION

May 2019 - Jan 2020

- Trained state-of-the-art models for aerial semantic segmentation with IOU > 80% (Keras, Hyperopt)
- Trained models for car model and maker classification (200 classes) with accuracy > 80% (Keras)
- Adapted a plate detection & OCR pipeline for raspberry pi (Keras, Darknet, Tensorflow lite)

Projects

Lifting Monocular Events to 3D Human Poses github

CVPRw 2021

PYTHON — PYTORCH

- Trained models to predict 3D human pose from a single event-camera
- Average of 80mm per-joint precision error

Open-source contributions github

PYTHON

Nov 2020 -

- Pytorch-lightning github

University projects

M.s. in Computer Science

PROJECTS — MATLAB, PYTHON

Sep 2017 - Oct 2020

- Chess Detection (Matlab — github): Implemented a pipeline for chessboard detection and geometry perspective correction
- Insertion Matcher (Python — github): Pipeline for linking product insertions based on title only. 86% F1-score on Gold Standard
- Fashion Answer (Python — github): Implemented a clothes retrieval bot. Pipeline: segmentation + feature extraction + KDTree

Skills

Computer skills and frameworks

PROFICIENCY IN

- Python (*OpenCV, Tensorflow, Pytorch, Keras, Scikit-learn, Pytorch-lightning*)
- Matlab (*Matlab Computer Vision toolkit, Image Processing toolkit*)
- C++ (*OpenCV, YARP, Openpose*)

Languages

PROFICIENCY IN

- Italian — Mother tongue
- English — Business fluent