



Ionuț Marian Motoi

EDUCATION AND TRAINING

[01/11/2022 – Current]

PhD Student in Engineering in Computer Science

Sapienza University of Rome - Department of Computer, Control, and Management Engineering

Address: Via Ariosto, 25, 00185 , Rome , Italy | | **Level in EQF:** EQF level 8

- Deep Learning
- Computer Vision
- Remote Sensing (Collaboration with [GMATICS](#))
- Weakly and Semi-Supervised Learning

[22/09/2019 – 17/01/2022]

Master's Degree in Artificial Intelligence and Robotics

Sapienza University of Rome - Department of Computer, Control, and Management Engineering

Address: Via Ariosto, 25, 00185, Rome, Italy | **Field(s) of study:** Artificial Intelligence ; Robotics ; Computer Science ; Computer Engineering ; Control Engineering | **Final grade:** 110 cum laude | **Level in EQF:** EQF level 7 | **Type of credits:** ECTS | **Number of credits:** 120 | **Thesis:** Intra-class generalization based on pseudo-label generation applied to the problem of table grape bunches instance segmentation

[31/08/2017 – 29/05/2018]

Erasmus Programme

Imperial College London

City: London | **Country:** United Kingdom | **Field(s) of study:** Electronic and Information Engineering | **Level in EQF:** EQF level 6

[25/09/2016 – 21/10/2019]

Bachelor's Degree in Computer Engineering - Robotics and Automation track

Università degli Studi di Roma "Tor Vergata"

City: Rome | **Country:** Italy | **Field(s) of study:** Computer Engineering ; Control Engineering ; Computer Science | **Final grade:** 110 cum laude | **Level in EQF:** EQF level 6 | **Type of credits:** ECTS | **Number of credits:** 180

[2011 – 2016]

Diploma di Liceo Scientifico ad indirizzo Scienze Applicate

Liceo Scientifico Statale "Vito Volterra"

City: Ciampino | **Country:** Italy |

WORK EXPERIENCE

[01/2022 – Current]

University research assistant

Sapienza University of Rome

City: Rome | **Country:** Italy

Working on the [CANOPIES](#) project

Table grape detection, segmentation and quality estimation

Prof. Daniele Nardi, Prof. Thomas A. Ciarfuglia

[ROCOCO Lab](#) - [DIAG Department](#)

PUBLICATIONS

- [2024] [Evaluating the Efficacy of Cut-and-Paste Data Augmentation in Semantic Segmentation for Satellite Imagery](#)
Authors: **Ionut M. Motoi**, Leonardo Saraceni, Daniele Nardi, Thomas A. Ciarfuglia
IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium
- [2024] [Self-Supervised Data Generation for Precision Agriculture: Blending Simulated Environments with Real Imagery](#)
Authors: Leonardo Saraceni, **Ionut M. Motoi**, Daniele Nardi, Thomas A. Ciarfuglia
2024 IEEE 20th International Conference on Automation Science and Engineering (CASE 2024)
- [2023] [AgriSORT: A Simple Online Real-time Tracking-by-Detection framework for robotics in precision agriculture](#)
Authors: Leonardo Saraceni, **Ionut M. Motoi**, Daniele Nardi, Thomas A. Ciarfuglia
IEEE International Conference on Robotics and Automation (ICRA) 2024
- [2023] [Weakly and semi-supervised detection, segmentation and tracking of table grapes with limited and noisy data](#)
Authors: Thomas A. Ciarfuglia, **Ionut M. Motoi**, Leonardo Saraceni, Mulham Fawakherji, Alberto Sanfeliu, Daniele Nardi
Computers and Electronics in Agriculture
- [2022] [Pseudo-Label Generation for Agricultural Robotics Applications](#)
Authors: Thomas A. Ciarfuglia, **Ionut M. Motoi**, Leonardo Saraceni, Daniele Nardi
Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops

SKILLS

Technical Skills

Computer Vision

Machine Learning, Deep Neural Networks

- PyTorch, Tensorflow

Software Development

- Python, C++

Robotics

- MATLAB, Simulink, CoppeliaSim, ROS, Gazebo

Web Development & WebGL

- Javascript, HTML, CSS
- WebGL, GLSL, BabylonJS

Version Control

- Git, Github

Operating Systems

- Linux (Ubuntu), Windows

Docker

Android Development

- Java, Android Studio, XML

LANGUAGE SKILLS

Mother tongue(s): Italian , Romanian

Other language(s):

English

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Spanish

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

German

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user