

Mario Avolio

COMPUTER & ROBOT VISION · ARTIFICIAL INTELLIGENCE

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Education

University of Milano Bicocca

Milan, Italy

M.S. IN COMPUTER SCIENCE

Sept. 2021 - March 2024

- Achieved a final grade of **110/110 cum laude**.
- Conducted research for the master thesis titled *"Self-Supervised Learning And Model Adaptation For Facial Attribute Classification"*, emphasizing innovative AI techniques such as self-supervised learning, model adaptation strategies, and dataset quantization to address complexities in analyzing diverse facial features.

University of Calabria

Arcavacata, Italy

B.S. IN COMPUTER SCIENCE

Sept. 2018 - Sept. 2021

- Graduated with a final grade of 108/110.
- Developed a thesis titled *"Dalla visione all'azione: moduli di ragionamento automatico full-stack"* (*"From Vision to Action: Full-stack Automated Reasoning Modules"*), focusing on BrainyBot, a robot capable of solving video games like Candy Crush Saga and Ball Sort Puzzle by interacting with a smartphone screen.

Skills

AI	Uncertain knowledge and reasoning, Machine & Deep Learning
Computer Vision	Image Processing, Feature Analysis, Semantic Segmentation, Object Recognition, Automatic Annotation
Robot Vision	Image Formation, Stereoscopy, Bayesian Filtering, SLAM
Data Analytics	Data & Network Analysis, Graph Clustering, NLP, Named-Entity Recognition, Topic Extraction
AI Technical Skills	Python, PyTorch, Keras, TensorFlow, OpenCV, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Plotly, Jupyter Notebooks
Other Technical Skills	C and C++, Java, R, MATLAB, Perl, Bash, HTML, CSS, JavaScript, Git, Linux, SQL, NoSQL, Agile Methodologies
Languages	English, Italian

Honors & Awards

DOMESTIC AWARDS

July 2021 **Best Students 2020 Award**, Graduation Day

University of
Calabria

Publications

From Vision to Execution: Enabling Knowledge Representation and Reasoning in Hybrid Intelligent Robots Playing Mobile Games

20th International Conference on
Principles of Knowledge
Representation and Reasoning
(KR2023)

CO-AUTHOR

September 2023

- Link to the paper: <https://proceedings.kr.org/2023/5/>