Gianvito Losapio

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The most intriguing aspect of artificial intelligence is human intelligence.

EDUCATION

University of Genoa   *October 2019 - Present*
Master of Science in Computer Science
Curriculum: Data Science & Engineering - Artificial Intelligence

My research interests are currently focused on a human-inspired artificial intelligence. In particular, I would like to investigate recent advances in cognition models based on grid cells and apply them to artificial neural networks. I am also interested in understanding how to overcome the shortcomings of current machine learning methods towards the development of explainable and sustainable intelligent systems.

IANUA Advanced School, Genoa   *December 2019 - Present*
Excellence School of University of Genoa

Extracurricular courses and lectures by companies and research institutions, winter & summer schools.

National Research Council (CNR), Bari   *April 2019 - October 2019*
Internship at the institute STIIMA-CNR

Supervisors: Vito Renò, PhD - prof. Tiziano Politi
Bachelor thesis: Deep learning and object detection techniques for the photo-identification of cetaceans
Abstract: An automated program for the detection of dolphin dorsal fins in images is presented. It combines a customized approach for region proposal and a convolutional neural network built from scratch for classification. The method was tested with very promising results on large collections of images taken in the Jonian Sea and in the Atlantic Ocean by private research companies during last years. This effort legitimates the creation of a fully-automated pipeline for large scale ecological studies, exploiting the potential of the recent first automated tool for Smart Photo Identification of the Risso's dolphin (SPIR). The ultimate goal is establishing the baseline for developing similar methods which could be extended to the study of other marine species.
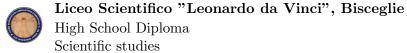
Polytechnic University of Bari   *September 2016 - October 2019*
Bachelor's Degree in Computer Science & Automation
Engineering

Final mark: 110/110 *cum laude*

Liceo Scientifico "Leonardo da Vinci", Bisceglie   *September 2011 - July 2016*
High School Diploma
Scientific studies

Final mark: 100/100
Final project: 'Cryptography', a multidisciplinary work including the creation of a DIY Enigma cipher machine using Arduino.

KNOWLEDGE & TECHNICAL STRENGTHS

· Programming languages: Matlab, Python, Java
· Algorithms and data structures design
· Machine Learning
· Signal processing and telecommunication systems
· Operating systems architecture
· Linux Shell Bash
· Process control and automation
· Electronics fundamentals
· Measurements and statistical techniques
· Database management
· Computer architecture
· Software engineering methods
· Numerical analysis and optimization
· Image processing
· Engineering Basics (Calculus, Geometry, Algebra, Physics)
· Scientific text editing (TeX Studio)

COMPETITIONS

C1A0 Expo Hackathon, Genoa   *November 2019*
Part of C1A0 Expo: International exhibition dedicated to
Artificial Intelligence

Description: Data science competition organized by the energy company Iren and host in Genoa Chamber of Commerce.
Objective: Analyzing and forecasting part of the daily electricity market.
Result: "Innovative solution" award funded by the company Avanade as part of a team of five students from the University of Genoa.

LANGUAGES

Italian
Mother Tongue
English
Cambridge First Certificate in English (FCE), Council of Europe Level B2