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Michele Ferro

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EDUCATION AND TRAINING

2012 – 2017 Caltanissetta, Italy

HIGH SCHOOL DEGREE Liceo Scientifico A. Volta

Address 93100, Caltanissetta, Italy | **Final grade** 87/100

2017 – 22 APR 2021 Catania, Italy

BACHELOR DEGREE IN COMPUTER SCIENCE Università degli Studi di Catania

Field of study Software and applications development and analysis , Computer use , Information and Communication Technologies (ICTs) not further defined

Final grade 103/110 | **Number of credits** 180 |

Thesis Sviluppo di add-on per Blender: applicazioni nell'archeologia e nell'ingegneria edile

OCT 2021 – 2023 Catania, Italy

MASTER DEGREE IN COMPUTER SCIENCE Università degli Studi di Catania

Field of study Machine learning, Deep learning, Computer Vision, Artificial Intelligence, Data Science, Image Processing

Final grade 110 cum laude | **Number of credits** 120 |

Thesis Knowledge extraction from sustainability reports using computer vision-based heuristics

WORK EXPERIENCE

3 APR 2023 – 10 JUN 2023 Catania, Italy

CURRICULAR RESEARCH INTERNSHIP UNICT - LAPOSS

- Study of large unstructured data analysis techniques (text, web data, digital activity logs, etc.).
- Learning advanced data analysis techniques (e.g., Machine Learning) for extracting information from data provided by companies that participated in the project.
- Learning techniques for measuring a company's "reputation," e.g., in terms of sustainability, and the "sentiment" expressed on social media regarding the products/services offered by the same company.
- Involvement in multidisciplinary working groups, with students from other departments (e.g., Dept. of Mathematics and Computer Science), professionals and industry experts.
- Qualitative evaluations on the outputs of the algorithms used and based on these evaluations propose possible modifications to the input data and/or analysis techniques.

DIGITAL SKILLS

Python (avanzato) | Machine learning | Deep Learning | Computer Vision | Git | Linux | OpenCV | C++ | C | Data Science | Data Collection, Data Processing, Data Analysis, Data Visualization | Grafica 3D (Blender) | Docker

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	C1	B2	B2	C1
FRENCH	A1	A1	A1	A1	A1

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

ADDITIONAL INFORMATION

PUBLICATIONS

Abstracting Stone Walls for Visualization and Analysis – 2021
An innovative abstraction technique to represent both mathematically and visually some geometric properties of the facing stones in a wall is presented. The technique has been developed within the W.A.L. (L) Project, an interdisciplinary effort to apply Machine Learning techniques to support and integrate archaeological research. More precisely the paper introduces an original way to “abstract” the complex and irregular 3D shapes of stones in a wall with suitable ellipsoids. A wall is first digitized into a unique 3D point cloud and it is successively segmented into the sub-meshes of its stones. Each stone mesh is then “summarized” by the inertial ellipsoid relative to the point cloud of its vertices. A wall is in this way turned into a “population” of ellipsoid shapes statistical properties of which may be processed with Machine Learning algorithms to identify typologies of the walls under study. The paper also reports two simple case studies to assess the effectiveness of the proposed approach.

HONOURS AND AWARDS

14 DEC 2023
Nominee "Premio Archimede" 20th Ed. 2024 (Academic Year 2022/2023) – Dipartimento di Matematica e Informatica - Università degli Studi di Catania The "Premio Archimede" prize is awarded (since 2005) every year by the Computer Science Courses of Study, incardinated in the Department of Mathematics and Computer Science, to recent graduates of Computer Science First Level and Master's degrees from the University of Catania, who have achieved excellent results during their student career and in their final thesis work.

PROJECTS

2020 – 2021
PointCloudStats-blender Blender add-on able to retrieve geometrical data from meshes in a collection, synthesize them using central tendencies, dispersion indexes and inertia tensor and export it in a CSV file.

(Bachelor's thesis project)

Link https://github.com/nebuchadneZZar01/PointCloudStats-blender

FEB 2023 – DEC 2023
SustiNEO Extractor Python utilities that can be used to extract data from sustainability reports and reinterpret them in a structured shape.

(Master's thesis project)

Link https://github.com/nebuchadneZZar01/sustineo_extractor

DRIVING LICENCE

Driving Licence: B