Konstantinos Triaridis

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Research Interests

Machine Learning Theory, Deep Learning, Optimization Theory, Computer Vision

Education

BSc & MSc in Electrical and Computer Engineering   *Thessaloniki*

ARISTOTLE UNIVERSITY OF THESSALONIKI (AUTH)   *2016 - 2022*

- **Specialization Area:** Electronic and Computer Engineering
- **Grade:** 8.68/10. **Top 10%** of my class. Graduated with highest honors.
- **Spec. Area Grade:** 9.34/10
- **Diploma Thesis:** *"Deep Learning for Automatic Modulation Classification"*, joint with Constantine Doumanidis
- **Advisors**: Nestor D. Chatzidiamantis and George K. Karagiannidis
- **Notable Projects:**
    - *Parallel-RCM*: A parallel OpenMP-based implementation of the Reverse Cuthill-McKee algorithm for sparse matrix bandwidth reduction.
    - *Ising-CUDA*: GPU accelerated Ising ferromagnetism model built on Nvidia CUDA.
    - *Shotgun!*: A ride-sharing application for events built in Python w/ Flask.
    - *Accelerated MATMUL*: A hardware-accelerated implementation of matrix multiplication on OpenCL for the Alveo U200 board.

Professional Experience

Centre for Research & Technology Hellas (CERTH)   *Thessaloniki*

RESEARCH ASSOCIATE   *Mar 2023 - Present*

- Conducted research in Deep Learning methods for multimedia manipulation detection.
- Assisted in reviewing papers for various venues, including ICCV, MMM

NET2GRID   *Thessaloniki*

MACHINE LEARNING RESEARCH AND DEVELOPMENT INTERN   *Jul 2021 - Oct 2021*

- Participated in research for Deep Reinforcement Learning for Dynamic Control of Electric Vehicle (EV) charging stations.
- Designed and implemented the resulting products.

BETA CAE Systems   *Thessaloniki*

SOFTWARE RESEARCH AND DEVELOPMENT INTERN   *Jun 2020 - Dec 2020*

- Independently designed and implemented a full crash ingestion pipeline for collecting, processing, and reporting on crashes from ANSA.
- Designed a full scale code quality assurance tool

Publications

Exploring Multi-Modal Fusion for Image Manipulation Detection and Localization   *Int. Conf. on MultiMedia Modeling (MMM)*

KONSTANTINOS TRIARIDIS, VASILEIOS MEZARIS   *2024*

MM-Net: A Multi-Modal approach towards Automatic Modulation Classification   *IEEE Communications Letters*

KONSTANTINOS TRIARIDIS, CONSTANTINE DOUMANIDIS, NESTOR D. CHATZIDIAMANTIS, GEORGE K. KARAGIANNIDIS   *2023*

Honors & Awards

2022	**Graduated with Distinction**, Top 10% of class
2016	**"The Great Moment for Education" scholarship**, by EurobankEFG for getting the highest grade in my school in the national university entry exams
2015	**1st place prize**, by the Hellenic Physical Society, a distinction for excelling in the annual national physics contest during the 2013-2014 academic year
2015	**Honor**, by the Hellenic Mathematical Society, a distinction for excelling in the annual national mathematics contest during the 2013-2014 academic year
2014	**3rd place prize**, by the Hellenic Mathematical Society, a distinction for excelling in the annual national mathematics contest during the 2012-2013 academic year

Skills

Programming Languages	Python, C/C++, Matlab
Deep Learning Frameworks	Pytorch, TensorFlow, keras
Parallel Programming	CUDA, OpenMP
Software Tools	NumPy, scikit-learn, OpenCV, cupy
Other	LaTeX bash , git

Languages

Greek	Native,
English	Fluent - C2 Certificate (CPE), TOEFL iBT 113
German	Intermediate, B1 Level

Extra-Curricular activities

Oct 2023	**Reviewer**, MMM 2024
Dec 2022	**Deep Learning Specialization**, deeplearning.ai, Coursera
Apr 2021	**Machine Learning**, Stanford University, Coursera
Mar 2019	**Volunteer**, IT Center AUTH