Aris I. Kanaris

29 December 1994

From Athens, Greece

Lives in Athens, Greece

arisi.kanaris@gmail.com

About me

Trained in electrical and computer engineering with majors in electronics, micro-electronics and energy. Fascinated by the world of nano-electronics, in which quantum physic rules play a decisive role, he discovered his interest about nano-materials and nano-sensors. Also interested in deep learning algorithms, neural networks and the promising field of computational neuroscience.

Skills

- Microelectronic Circuits
- Digital Circuits, VLSI
- Medical Signal Processing
- Electric Machines
- Electric Power Systems
- Deep Learning, Neural Networks

Programming

- C, C++
- Python
- MatLab

Languages

Greek (native), English, French

Education

2020-present M.Sc. Microsystems and Nanodevices — NTUA, Athens

2012-2020 B.Sc.&M.Sc. Electrical and Computer Engineering — NTUA, Athens
GPA: 8.05/10
Majoring in Electronics, Electric Machines, Electric Power Systems and Biomedical Engineering

2006-2012 Costeas-Geitonas High School — Athens, Greece
GPA: 19.6/20

Work Experience and Personal Projects

Current — Working on "MICSYS: Water pollution detection system based on microfluidic device" — Demokritos, Athens
Institute of Nanoscience & Nanotechnology,
Supervisors: Dr. S. Chatzandroulis

2021-2022 — Worked on "DIAMOND: Rapid, timely DIAgnosis and MONitoring of microbial Diseases by means of an automated, point-of-care system" — Demokritos, Athens
Institute of Nanoscience & Nanotechnology,
Supervisors: Dr. A. Tserepi

5-7/2019 — Practical training in "Development of an automated system for obstructive sleep apnea treatment based on machine learning and breath effort monitoring." — Demokritos, Athens
Institute of Nanoscience & Nanotechnology,
Supervisor: Dr. S. Chatzandroulis

2019-2020 — Master Thesis in "Production, calibration and study of gas sensors" — NTUA, Athens
Supervisor: Prof. D. Tsoukalas

2015-2016 — Project in "Signal analyzer techniques for biosensors" — NTUA, Athens
Course entitled "Medical Imaging and Image Processing"
under the supervision of Prof. D. Koutsouris

Publications

2021 — Identification of Two Commercial Pesticides by a Nanoparticle Gas-Sensing Array
E. Skotadis, A.I. Kanaris, E. Aslanidis, N. Kalatzis, P. Michalis, N. Kalatzis, F. Chatzipapadopoulos, N. Marianos, D. Tsoukalas *Sensors*

2020 — Development of an automated system for obstructive sleep apnea treatment based on machine learning and breath effort monitoring.
V. Tsouti, A.I. Kanaris, K.Tsoutis, S. Chatzandroulis *Microelectronic Engineering*

2020 — A sensing approach for automated and real-time pesticide detection in the scope of smart-farming
E. Skotadis, A.I. Kanaris, E. Aslanidis, P. Michalis, N. Kalatzis, F. Chatzipapadopoulos, N. Marianos, D. Tsoukalas *Computers and Electronics in Agriculture*

Conferences

2019 MNE Micro & Nano Engineering *Development of an automated system for obstructive sleep apnea treatment based on machine learning and breath effort monitoring* A.I. Kanaris, K. Tsoutis, K.N. Kanellopoulou, S. Chatzandroulis, V. Tsouti — Rhodes, Greece

Certificates

2016 English, Diploma of FCE Cambridge — B2
2009 French, Diploma of Delf — B1

Other interests

In addition to his scientific interests, Aris cultivates organic fruits and vegetables for personal consumption. He is interested in traveling the world, exploring other cultures and photographing nature and undiscovered parts of cities. He also loves to play chess and digitally design 3D houses. Last but not least, he likes to play football and tennis while also enjoying hiking and biking.