

Alexandros Filotheou

Personal Details

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| Place and Date of Birth | Thessaloniki, Greece 8 Nov 1987 |
| Current location and Date of CV update | Thessaloniki, Greece June 2024 |
| Address | Plagiari, 57500, PO Box 530, Thessaloniki, Greece |
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Work Experience

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|-------------------|---|
| 2023.09 – present | Postdoctoral Research Associate Center for Research and Technology Hellas (CERTH), Thessaloniki, Greece |
| 2018.09 – 2023.03 | Robotics Researcher for NSRF projects Aristotle University of Thessaloniki, Greece |
| 2016.09 – 2016.11 | Teaching Assistant · DD2380 Artificial Intelligence KTH Royal Institute of Technology, Stockholm, Sweden |
| 2011.10 – 2012.03 | Database Designer Egnatia Motorway S.A., Thessaloniki, Greece Design and implementation of a unified database, suitable for the needs of the Instrumental Landslide and Geotechnical Issues monitoring system, in the context of the European Research Program IRIS. |
| 2011.03 – 2011.05 | Application Developer Internship · Egnatia Motorway S.A., Thessaloniki, Greece Design, development and technical and user documentation of a system for data recovery and report-issuing from the company's bridge register using customizable criteria. The application was developed using ORACLE developer tools. |
| 2008.07 – 2009.06 | Telecommunications Engineer Hellenic Telecommunications Organisation (OTE S.A.) Thessaloniki, Greece Remote service in matters of local and wide area networks. |

Voluntary Experience

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|-------------------|---|
| 2013.10 – 2014.07 | Computer Vision Engineer · PANDORA Robotics Undergrad Team, School of Electrical and Computer Engineering, Aristotle University of Thessaloniki Design of the architecture, implementation and thorough documentation of the Hole Detection system of the PANDORA robot under ROS, using RGB+Depth sensors (Microsoft Kinect and ASUS Xtion) in the context of the conditions of the international RoboCup Rescue competition. |
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Education

- 2018.09 – 2023.06 **Doctorate**
Aristotle University of Thessaloniki, Greece
Department of Electrical and Computer Engineering

Thesis · 2D LIDAR sensor pose estimation via scan-to-map-scan matching
Advisor: Prof. Georgios Sergiadis, Department of Telecommunications
Defended: 28/06/2023
Committee: Georgios Sergiadis (AUTH), Andreas Symeonidis (AUTH), Traianos Yioultsis (AUTH), Zoe Doulgeri (AUTH), Nikolaos Fachantidis (UoM), Aggelos Bletsas (TUC), Anastasios Delopoulos (AUTH)
- 2015.09 – 2017.06 **Master of Science**
KTH Royal Institute of Technology, Stockholm, Sweden
School of Electrical Engineering
Programme title: *Systems, Control, and Robotics*

Thesis · Robust Decentralized Control of Cooperative Multi-robot Systems: An inter-constraint Receding Horizon approach
Advisor: Prof. Dimos Dimarogonas, Department of Automatic Control
- 2005.09 – 2013.07 **Diploma**
Aristotle University of Thessaloniki, Greece
Department of Electrical and Computer Engineering
GPA: 7.94/10.0
Class rank: 23/280 – 92nd percentile

Thesis · Multi-label classification using Learning Classifier Systems
Advisor: Prof. Pericles Mitkas, Department of Electronics and Computer Engineering
Committee: Pericles Mitkas (AUTH), Anastasios Delopoulos (AUTH), Andreas Symeonidis (AUTH)

Publications

[Link to Google Scholar](#)

Tzitzis2023

Filothiou2023A

Filothiou2022iA

Filothiou2022

Filothiou2022eA

Mylonopoulos2021

Dimitriou2021a

Filothiou2020cA

Tzitzis2020

Tzitzis2020a

Filothiou2020bA

8739423

8739486

Filotheou2020

Filotheou2018

Distictions

- 2016 Teaching Assistant, DD2380 - Artificial Intelligence, under the supervision of Professor Patric Jensfelt, KTH Royal Institute of Technology, Sweden
- 2015 2nd place in Autonomy class in RoboCup Rescue as member of PANDORA robotics team
- 2013 Ranked 30th in graduating class among 224 students who graduated in 2013, ECE, AUTH, Greece
- 2011 Top of my class in the course of Database Systems, winter semester 2010 – 2011, AUTH, Greece
- 2005 Ranked 21st in entering class among 280 students who enrolled in 2005, ECE, AUTH, Greece

Computer Skills

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| Languages | C/C++, Python, shell, MATLAB/Octave, {PL/}SQL, Java, Assembly |
| {Meta-}operating Systems | Linux, ROS |
| Graphics | AutoCAD, Gimp |
| Tools | git, Docker, OpenCV, Qt (cpp), Tkinter (py), L ^A T _E X, Oracle Forms / Reports, Microsoft {Visio, Project, Office} |

Languages

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| English | Fluent - IELTS Score 8.5 |
| Greek | Mother tongue |

Links

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| Indicative publications: | [1] [2] [3] — google scholar |
| Indicative software packages: | cbgl · fsm_lidom_ros · lama_odom · pvhd — github |
| Demos / videos: | cbgl · cultureid · fsm · relief · mpc |

References

Dr. Antonis Dimitriou · Coordinator of the projects for which I worked during my AUTH years
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