



# Georgios Kouros

AI Master Student

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- Greek

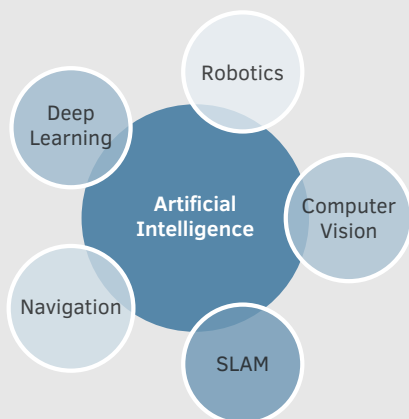
## About Me

I am an aspiring Robotics/AI researcher, experienced in mobile robotics, computer vision, and deep learning. I enjoy working on making robots more versatile, more robust, and more intelligent in the service of society.

## Languages

- Greek
- English
- German

## Expertise



## Education

- 2020 – Now **Advanced Master of Artificial Intelligence** KU Leuven (Belgium)  
Track: Engineering and Computer Science (ECS)  
**Master Thesis (TBA):**  
Monocular Pose Estimation of Vehicles in Traffic based on Deep Metric Learning
- 2010 – 2016 **Electrical and Computer Engineering** AUTH (Greece)  
Specialization: Electronics and Computers, GPA: 7.84/10  
**Diploma Thesis (10/10):**  
Development of an Autonomous Robotic Ground Vehicle with a 4WS4WD Kinematic Model and Implementation of a System for Autonomous Exploration in Unknown Environments

## Experience

- 2019 – 2020 **Industry 4.0 Consultant** Kapernikov CVBA  
Worked on projects for computer vision based warehouse forklift localization, automated visual quality testing of industrial products, and industrial process monitoring.
- 2017 – 2018 **Research Assistant** ITI – CERTH  
Worked on control, autonomous navigation, and subsurface mapping with a GPR-equipped tractor-trailer UGV, as part of Project BADGER (EU Horizon2020).
- 2014 – 2016 **Volunteer Robotics Engineer** Pandora Robotics Team (AUTH)  
Worked on all stages of development of a state-of-the-art AMR for search-and-rescue operations. Focused mainly on sensors and actuators, control, and autonomous navigation.

## Publications

- 2019 **Surface Exploration with a Robot-Trailer System for Autonomous Subsurface Scanning**  
*E. Tsiogas, I. Kostavelis, G. Kouros, A. Kargakos, D. Giakoumis, D. Tzovaras*  
2019 IEEE Smart World Congress (SmartWorld)
- 2018 **3D Underground Mapping with a Mobile Robot and a GPR Antenna**  
*G. Kouros, E. Skartados, I. Kostavelis, D. Giakoumis and D. Tzovaras*  
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Madrid, Spain
- 2018 **Surface/subsurface mapping with an integrated rover-GPR system: A simulation approach**  
*G. Kouros, C. Psarras, I. Kostavelis, D. Giakoumis and D. Tzovaras*  
2018 IEEE International Conference on Simulation, Modeling, and Programming for Autonomous Robots SIMPAR, Brisbane, Australia.
- 2017 **PANDORA Monstertruck: A 4WS4WD car-like robot for autonomous exploration in unknown environments**  
*G. Kouros, L. Petrou*  
2017 12th IEEE Conference on Industrial Electronics and Applications (ICIEA), Siem Reap, Cambodia

## Awards

- 2015 **2nd Best in Class Autonomy Award** Pandora Robotics Team  
Robocup Rescue 2015 competition in Hefei, China
- 2015 **Excellence Award** Pandora Robotics Team  
Awarded by the Aristotle University of Thessaloniki for the Distinction in Robocup Rescue 2015 competition

## Technical Skills

- Linux
- PCL
- Git
- LaTeX
- CI/CD
- OpenCV
- Gazebo
- PyTorch
- Docker
- CVAT
- ROS
- Blender
- smach
- ML
- Jira