

Short CV



Eleftherios J. Lygouras was born in Xanthi, Greece in 1986. He received his first degree (Diploma) from the Department of Production and Management Engineering of Democritus University of Thrace in 2014 and the MSc from the Department of Electrical and Computer Engineering of Democritus University of Thrace in 2016, in the field of Energy Systems Technologies and Renewable Energy Sources with specialization in Electric Machines. In January 2020, he received his PhD degree in the fields of Unmanned Aerial Vehicles (UAVs), Search and Rescue (SAR) operations and Computer Vision from the Department of Production and Management Engineering-Laboratory of Robotics and Automation- of Democritus University of Thrace.

Publications:

Journals:

1. E. Lygouras. "Vision and Geolocation Data Combination for Precise Human Detection and Tracking in Search and Rescue Operations". *International Journal of Intelligent Science*, 10(03), pp. 41-64, July 2020.
2. E. Lygouras, N. Santavas, A. Taitzoglou, K. Tarchanidis, A. Mitropoulos, A. Gasteratos. "Unsupervised human detection with an embedded vision system on a fully autonomous UAV for search and rescue operations". *Sensors* 2019, 19(16), August 2019.
3. E. Lygouras, A. Gasteratos, K. Tarchanidis, A. Mitropoulos, "ROLFER: A Fully Autonomous Aerial Rescue Support System", *Microprocessors and Microsystems*, Vol. 61, pp. 32-42, September 2018.
4. Y. Karnavas, E. Lygouras. "Synchronous machine analysis and modelling in LabVIEW: An educational tool for transient stability studies", *International Journal of Electrical Engineering Education*", August 2018

Conferences:

1. E. Lygouras, A. Gasteratos, K. Tarchanidis, "ROLFER: An innovative Proactive Platform to Reserve Swimmer's Safety", *Information Systems for Crisis Response*

and Managment in Mediterranean Countries, Springer Proceedings of 4th International ISCRAM-med Conference, 18-20 October 2017, Xanthi, Greece.

2. E. Lygouras, I. Dokas, K. Andritsos, K. Tarchanidis, A. Gasteratos, "Identifying Hazardous Emerging Behaviors in Search and Rescue Missions With Drones: A Proposed Methodology", *Information Systems for Crisis Response and Managment in Mediterranean Countries, Springer Proceedings of 4th International ISCRAM-med Conference, 18-20 October 2017, Xanthi, Greece.*