

ANESTIS ZAGANIDIS

EDUCATION

PERIOD	June 2016 — December 2019 (Viva date)
DEGREE	PhD in Computer Science
THESIS TITLE	Semantics in 3D point cloud registration
UNIVERSITY	University of Lincoln Lincoln, UK

PERIOD	August 2013 — 21 January 2016
DEGREE	Master of Science in Computer Science and Engineering
SPECIALIZATION	Embedded and Intelligent Systems / Knowledge Discovery
THESIS TITLE	Self-organising Methods for Malfunction Prediction data mining, machine learning, self-monitoring
UNIVERSITY	Högskolan i Halmstad Halmstad, Sweden

PERIOD	September 2007 — 12 December 2012
DEGREE	Bachelor of Science in Technology Management
THESIS TITLE	Design and simulation of a Microcontroller parallel computing, computer architecture
UNIVERSITY	University of Macedonia Thessaloniki, Greece

RESEARCH EXPERIENCE

PhD in *Semantics in 3D point cloud registration*– June 2016 to Present
Lincoln Centre for Autonomous Systems- University of Lincoln

- Investigated approaches for point cloud registration in environments with poor geometric structure.
- Proposed the use of semantics to aid registration using Normal Distribution Transform.
- Results presented at IROS 2017, using hand-crafted features as low level semantics.
- Investigated high level semantics and deep learning techniques for semantic segmentation.
- Results published at Robotics and Automation Letters 2018 and presented at IROS 2018.
- Investigated the use of semantics in place recognition in outdoor environments. IROS 2019.

MSc in *Embedded and Intelligent Systems*. Thesis title *Self-organising Methods for Malfunction Prediction*

Objective of the project: Predict malfunctions in a fleet of vehicles, based on deviations of the sensor readings from the consensus.

- Building upon *Consensus Self-organized models for fault detection (COSMO)*.
- Introduced the use of autoencoders, by life-long training and monitoring of the reconstruction error.

