

Georgios METHENITIS

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Work Experience

- Jun. 2014 ~
 Sep. 2014 **Internship**, EUROPEAN SPACE AGENCY
- Worked in the Advanced Concepts Team on the project "Novelty Search for Soft Robotic Space Exploration".
 - Applied novel evolutionary search methods for optimizing the morphology and gaits of soft-robots in varying gravity levels (video).
- Jan. 2013 ~
 Mar. 2014 **Team Member**, DUTCH NAO TEAM
- Developed existed C++ codebase for the Aldebaran NAO robot and the Standard Platform League.
 - Participated (placed in top-16 and 3rd) in international and open Robocup Standard Platform League competitions.
- Oct. 2013 ~
 Feb. 2014 **Teaching Assistant**, UNIVERSITY OF AMSTERDAM
- Assisted in teaching the course C++ programming language.
- Oct. 2013 ~
 Feb. 2014 **Internship**, VICARVISION
- Designed and developed an algorithm for estimating floor plane from monocular camera footage based on human detection samples.

Education

- Feb. 2015 ~
 Feb. 2019 **PhD candidate** - CWI¹, DELFT UNIVERSITY OF TECHNOLOGY
- Focusing on (electricity) markets, in which conflict of interest between strategic agents emerges in face of uncertainty (renewable power generation).
 - Multi-agent systems, game-theory and learning.
 - Supervised by: Prof. Han La Poutré (CWI and TU Delft) and Dr. Michael Kaisers (Researcher, CWI).
- Sep. 2012 ~
 Dec. 2014 **MSc Artificial Intelligence** - UNIVERSITY OF AMSTERDAM
- Thesis: Evolution of Soft-Robots by Novelty Search, in collaboration with the Advanced Concepts Team in the European Space Agency (ESA), supervised by: Daniel Hennes (ESA), Dario Izzo (ESA) and Arnoud Visser (UvA).
- Sep. 2006 ~
 Aug. 2012 **Diploma in Electronic and Computer Engineering** - TECHNICAL UNIVERSITY OF CRETE
- Thesis: Player Behavior and Team Strategy for the RoboCup 3D Simulation League, supervised by: Prof. Michael G. Lagoudakis
 - Developed the codebase (Java) for robot localization, locomotion, communication, strategy, and coordination.

Publications

- Georgios Methenitis, Michael Kaisers, and Han La Poutré. "Renewable electricity trading through SLAs". In: *Energy Informatics* 11 (Nov. 8, 2018), p. 57
- Georgios Methenitis, Michael Kaisers, and Han La Poutré. "SLA-Mechanisms for Electricity Trading Under Volatile Supply and Varying Criticality of Demand". In: *Proceedings of the 16th Conference on Autonomous Agents and MultiAgent Systems*. AAMAS '17. Sao Paulo, Brazil: International Foundation for Autonomous Agents and Multiagent Systems, 2017
- Georgios Methenitis, Michael Kaisers, and Han La Poutré. "Incentivizing Intelligent Customer Behavior in Smart-Grids: A Risk-Sharing Tariff & Optimal Strategies". In: *Proceedings of the 25th International Joint Conference on Artificial Intelligence, IJCAI*. AAAI Press, 2016
- Georgios Methenitis, Michael Kaisers, and Han La Poutré. "A multi-scale energy demand model suggests sharing market risks with intelligent energy cooperatives". In: *Smart Grid Technologies - Asia (ISGT ASIA), 2015 IEEE*. 2015
- Georgios Methenitis, Daniel Hennes, Dario Izzo, and Arnoud Visser. "Novelty Search for Soft Robotic Space Exploration". In: *Proceedings of the 2015 Annual Conference on Genetic and Evolutionary Computation*. GECCO '15. Madrid, Spain: ACM, 2015
- Georgios Methenitis, Patrick M de Kok, Sander Nugteren, and Arnoud Visser. "Orientation finding using a grid based visual compass". In: BNAIC, 2013

Research Interests

- Multi-Agent Systems (Learning/Cooperation/Competition)
- Game-Theory
- Machine Learning
- Evolutionary Algorithms

Technical Skills

PROGRAMMING

Python (Tensorflow), C++ (Boost, OpenCV, STL, PCL, Qt, CMake), Java, C#, C, HTML/CSS

OS

GNU/Linux (Arch, Debian), MS Windows, MacOS

SOFTWARE

Eclipse, NetBeans, Qt Creator, Matlab, L^AT_EX

PLATFORMS

Aldebaran NAO, Sony AIBO, Webots, Spark, VoxCad

¹CWI (Centrum Wiskunde & Informatica) is the national research institute for mathematics and computer science in the Netherlands.

*References are available upon request.