Curriculum Vitæ

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** - CWI[1], 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 mechanism design.*
- *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

1. Georgios Methenitis, Michael Kaisers, and Han La Poutré. "Forecast–Based Mechanisms for Demand Response". In: *Proceedings of the 18th Conference on Autonomous Agents and MultiAgent Systems*. AAMAS '19. 2019
2. Georgios Methenitis, Michael Kaisers, and Han La Poutré. "Degrees of Rationality in Agent–Based Retail Markets". In: *Computational Economics* (2019). (Submitted)
3. Georgios Methenitis, Michael Kaisers, and Han La Poutré. "Renewable electricity trading through SLAs". In: *Energy Informatics* 1.1 (2018), p. 57
4. 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
5. 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
6. Georgios Methenitis, Michael Kaisers, and Han La Poutre. "A multi-scale energy demand model suggests sharing market risks with intelligent energy cooperatives". In: *Smart Grid Technologies - Asia (ISGT ASIA), 2015 IEEE*. 2015
7. 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
8. 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)
- Machine learning and reinforcement learning for autonomous system applications
- Game theory & mechanism design
- Evolutionary algorithms for optimization

Technical Skills

Programming	OS	IDEs	Robot platforms
Python (Tensorflow), C/C++ (Boost, OpenCV, STL, PCL, Qt, CMake), Java, C#, Matlab, HTML/CSS	GNU/Linux (Arch, Debian), MS Windows, MacOS	Eclipse, NetBeans, Qt Creator	Webots, Spark, Aldebaran NAO, Sony AIBO

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

* References are available upon request.