Eleftherios Anastasiadis

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Settled status for work in the UK

Personal profile

Experienced Computer Scientist with a demonstrated history of working in the information technology industry and as a computer science researcher. Skilled in many programming languages with a particular interest in data science with Python. Strong background in the design and analysis of algorithms with a PhD focused in the mathematical modeling of optimization and operations research problems arising from Internet economics.

Experience

Research Associate - Imperial College London **Mar. 2021 - Nov. 2021**

Research associate in real-time anomaly detection. Development of the code for the detection of anomalies in large sets of data was written in C++ and Matlab.

Research Associate - Imperial College London **Jul. 2018 - Feb. 2021**

Research associate in machine learning for autonomous vehicle fleets. The research focused on the modelling and development of fast optimization algorithms that support the various decision processes involved in the design and operation of the next generation Mobility as a Service platforms.

Quality Assurance Engineer - Rosslyn Data Technologies **Oct. 2016 - Jun. 2018**

Responsibilities included the overall manual and automated testing of the company's cloud platform data analytics software, the design of test cases and stress tests. The automated tests were written in C# using the Selenium framework and stress tests scripts were written in Python.

Lecturer - London Southbank University **Feb.2017- June 2017**

Hourly paid lecturer for the postgraduate module in “Human Computer Interaction” (teaching theory and lab tutorials).

Demonstrator - University of Liverpool **2012 - 2013**

Demonstrator of tutorials in “Network games”, “Computational game theory” and “Combinatorial optimization” in both undergraduate and postgraduate levels (teaching and marking).

Education

University of Liverpool **2012 - 2016**

• Ph.D. in Computer Science

Ph.D thesis: Research in the field of network optimization problems with applications to urban planning from an economic perspective and taking into account the strategic behaviour of the participants in the networks. The thesis dealt with the formulation of models, design and implementation (in Python) of novel algorithms.
The Ph.D was funded with a studentship by the School of Electrical Engineering, Electronics and Computer Science.

• MSc in Computation and Game Theory (with distinction) **2011 - 2012**

The program focusing in the areas of Algorithmic Game Theory and Mechanism Design specialized in operations research, combinatorial optimization, microeconomics and the design and analysis of algorithms for game theoretic

problems arising from Internet economics. The MSc thesis dealt with the study of one of the basic problems, that of Combinatorial Auctions. Experiments and implementations were made in Python.

University of Athens

• BSc in Informatics and Telecommunications (first class honors) 2005 - 2010

The modules covered the areas of theoretical computer science, computer systems and applications and telecommunications. The BSc thesis dealt with the study of the problem of Sponsored Search Auctions that are used for advertising by the Search Engines.

Computer Skills

1. Programming languages: Python, C, C++, Java, Objective-C, C#
2. Web, databases and miscellaneous: HTML, CSS, PHP, Javascript, Bash scripting, Applescript, SQL, Latex
3. Packages/Libraries/Tools: Numpy, Pandas, Scikit-learn, Matplotlib, Tensorflow, Keras, STL, Selenium
4. Operating systems: MacOS, Linux, Windows
5. Additional certificates: Machine Learning, Computer Vision

Academic

Publications

Journals

1. Karamanis, Renos, Eleftherios Anastasiadis, Marc Stettler, and Panagiotis Angeloudis. "Vehicle redistribution in ride-sourcing markets using convex minimum cost flows." *IEEE Transactions on Intelligent Transportation Systems* (2021).
2. Eleftherios Anastasiadis, Panagiotis Angeloudis, Daniel Ainalis, Qiming Ye, Pei-Yuan Hsu, Renos Karamanis, Jose Escribano Macias, and Marc Stettler. "On the Selection of Charging Facility Locations for EV-Based Ride-Hailing Services: A Computational Case Study." *Sustainability* 13, no. 1 (2021): 168.
3. Renos Karamanis, Eleftherios Anastasiadis, Panagiotis Angeloudis, and Marc Stettler. "Assignment and pricing of shared rides in ride-sourcing using combinatorial double auctions." *IEEE Transactions on Intelligent Transportation Systems* (2020).
4. Nikolaos Pitropakis, Emmanouil Panaousis, Thanassis Giannetsos, Eleftherios Anastasiadis, and George Loukas. "A taxonomy and survey of attacks against machine learning." Computer Science Review 34 (2019): 100199.
5. Eleftherios Anastasiadis, Xiaotie Deng, Piotr Krysta, Minming Li, Han Qiao, Jinshan Zhang. “Network pollution games”. *Algorithmica* 81, no. 1 (2019): 124-166.
6. Dionisis Kandris, George Tselikis, Eleftherios Anastasiadis, Emmanouil Panaousis, and Tasos Dagiuklas. "COALA: A Protocol for the Avoidance and Alleviation of Congestion in Wireless Sensor Networks." *Sensors* 17, no. 11 (2017): 2502.

Conferences

1. Eleftherios Anastasiadis, Panagiotis Angeloudis, Daniel Ainalis, Qiming Ye, Pei-Yuan Hsu (2019). “A bilevel optimisation model for the selection of parking and charging facilities for EV-based ride-hailing services.” 8th Symposium of the European Association for Research in Transportation (hEART 2019).

2. Eleftherios Anastasiadis, Argyrios Deligkas. "Heterogeneous facility location games." In Proceedings of the 17th International Conference on Autonomous Agents and MultiAgent Systems, pp. 623-631. International Foundation for Autonomous Agents and Multiagent Systems, 2018.
3. Eleftherios Anastasiadis, Xiaotie Deng, Piotr Krysta, Minming Li, Han Qiao, Jinshan Zhang. “Network pollution games” – In Proceedings of the 2016 International Conference on Autonomous Agents and Multi Agent Systems (AAMAS), pp. 23-31.
4. Eleftherios Anastasiadis, Xiaotie Deng, Piotr Krysta, Minming Li, Han Qiao, Jinshan Zhang. “New results for network pollution games”. In Proceeding of the International Computing and Combinatorics Conference (COCOON) 2016, (Vol. 9797, p. 39).

Participations and memberships

1. Qualification to the semi final round of the Panhellenic e-nnovation competition.
2. Attendance of spring school on mixed integer non-linear optimization. Funded by the European Cooperation in Science and Technology (e-COST)
3. Member of the organizing committee of the 9th International Symposium on Algorithmic Game Theory (SAGT) 2016
4. IEEE and IEEE Computational Intelligence Society Memberships

Languages

Greek (Native), English (Fluent), French (Very good)

Other

Military service

1. Greek Army (Artillery) (2010-2011)

General interests

2. Cinema, photography, classical athletics (100m amateur sprinter), playing chess, programming apps (iphone) and other scripts