Curriculum Vitae

Thanasis Lianeas

Personal Info

Full Name	Athanasios V. Lianeas
Contact info	e-mail: lianeas@corelab.ntua.gr

Education

2015-2018	Postdoctoral Researcher, Electrical and Computer Engineering, Cockrell School of Engineering, Univesity of Texas at Austin, supervised by Prof. Evdokia Nikolova.
2009-2014	Phd in Computer Scinece, School of Electrical and Computer Engineering, National Technical University of Athens, supervised by Prof. Stathis Zachos and Prof. Dimitris Fotakis, Thesis: "Congestion Games: Stochastic Extensions and Techniques for Reducing the Price of Anarchy"
2007-2009	Graduate Diploma (MSc.), Graduate Program in Logic, Algorithms and Computation, co organized by the National Technical University of Athens, the University of Athens and the University of Patras. GPA: 8.7/10. (Thesis: Undirected Graph Connectivity in Logspace, grade 10/10, Advisor: Prof. Stathis Zachos)
2001-2007	Diploma (BSc., MSc.), School of Applied Mathematical and Physical Sciences, National Technical University of Athens (N.T.U.A.). GPA: 8.22/10. (Diploma thesis: Conflict-free Colorings, grade 10/10, Advisor: Prof. Stathis Zachos)

Research Interests

Game Theory	Basically interested in Congestion Games, their special cases or extensions that better model real life situations. A recent direction I have followed additionally assumes selfish resources' operators which gives rise to many interesting questions.
Algorithms	More general, I am interested in any algorithmic problem. Lately, I started engaging with some algorithmic problems arising in Power Flow Networks, where in fact, there is lack of theoretical justifications.

Publications

2018 *Risk-Averse Selfish Routing.*
Thanasis Lianeas, Evdokia Nikolova, Nicolás E. Stier-Moses.
Mathematics of Operations Research (Math OR, to appear).

\- *Network Pricing: How to Induce Optimal Flows Under Strategic Link Operators.*
José Correa, Cristobál Guzmán, Thanasis Lianeas, Evdokia Nikolova, Marc Schröder.
Economics and Computation (EC '18, to appear).

\- *When Does Diversity of User Preferences Improve Outcomes in Selfish Routing?*
Richard Cole, Thanasis Lianeas, Evdokia Nikolova.
International Joint Conferences on Artificial Intelligence (IJCAI '18, to appear).

\- *A Submodular Approach for Electricity Distribution Network Reconfiguration.*
Ali Khodabakhsh, Ger Yang, Soumya Basu, Evdokia Nikolova, Michael C. Caramanis, Thanasis Lianeas, Emmanouil Pountourakis.
Hawaii International Conference on System Sciences (HICSS '18).

2017 *Reconciling Selfish Routing with Social Good.*
Soumya Basu, Yitao Chen, Thanasis Lianeas, Evdokia Nikolova, Ger Yang.
Symposium on Algorithmic Game Theory (SAGT '17).

\- *Resolving Braess's Paradox in Random Networks.*
Dimitris Fotakis, Alexis C. Kaporis, Thanasis Lianeas, Paul G. Spirakis.
Algorithmica (Algorithmica '17).

2016 *Asymptotically Tight Bounds for Inefficiency in Risk-Averse Selfish Routing.*
Thanasis Lianeas, Evdokia Nikolova, Nicolás E. Stier-Moses.
International Joint Conference on Artificial Intelligence (IJCAI '16).

2015 *New Complexity Results and Algorithms for the Minimum Tollbooth Problem.*
Soumya Basu, Thanasis Lianeas, Evdokia Nikolova.
Web and Internet Economics (WINE '15).

\- *Improving Selfish Routing for Risk-Averse Players.*
Dimitris Fotakis, Dimitris Kalimeris, Thanasis Lianeas.
Web and Internet Economics (WINE '15).

2014 *On the Hardness of Network Design for Bottleneck Routing Games.*
Dimitris Fotakis, Alexis C. Kaporis, Thanasis Lianeas, Paul G. Spirakis.
Theoretical Computer Science (TCS '14).

2013 *Stochastic Congestion Games with Risk-Averse Players.*
Haris Angelidakis, Dimitris Fotakis, Thanasis Lianeas.
Symposium on Algorithmic Game Theory (SAGT '13).

\- *Resolving Braess's Paradox in Random Networks.*
Dimitris Fotakis, Alexis C. Kaporis, Thanasis Lianeas, Paul G. Spirakis.
Web and Internet Economics (WINE '13).

2012 *On the Hardness of Network Design for Bottleneck Routing Games.*
Dimitris Fotakis, Alexis C. Kaporis, Thanasis Lianeas, Paul G. Spirakis.
Symposium on Algorithmic Game Theory (SAGT '12).

Work Experience

2018-...	Lecturer (Π.Δ. 407/1980), School of Electrical and Computer Engineering, N.T.U.A.
2015-2018	Postdoctoral Researcher, NSF grant numbers CCF-1216103, CCF-1350823 and CCF-1331863, University of Texas at Austin
2012-2014	PhD Researcher, project Algorithmic Game Theory, co-financed by the European Union and Greek national funds. Research Funding Program: THALES, investing in knowledge society through the European Social Fund
2009-2011	PhD Researcher, Basic Research Grant: Resource allocation to selfish users using game-theoretic models, N.T.U.A.

Teaching Experience

2018-...	Lecturer for the course "Discrete Mathematics", School of Electrical and Computer Engineering, N.T.U.A.
2015-2017	Individual lectures for the courses "Algorithms and Complexity" (undergraduate) and "Approximation Algorithms" (graduate), Electrical and Computer Engineering, University of Texas at Austin
2009-2014	TA for the undergraduate course "Algorithms and Complexity", School of Electrical and Computer Engineering, N.T.U.A.
2007-2014	Supporting the laboratory-exercisers part of the course "Introduction to Programming", School of Electrical and Computer Engineering, N.T.U.A.
2010-2012	TA for the undergraduate course "Introduction to Computer Science", School of Electrical and Computer Engineering, N.T.U.A.
2009-2010	TA for the graduate courses "Theoretical Computer Science I: Algorithms and Complexity" and "Theoretical Computer Science II: Algorithmic Game Theory", School of Electrical and Computer Engineering, N.T.U.A.
2006-2014	Tutoring undergraduate students for the courses "Algorithms and Complexity" and "Introduction to Computer Science" and for Mathematics, Physics and Mechanics.

Awards

2002	Award of a scholarship by the Greek State Scholarship's Foundation for excellent performance during the first year of studies at the N.T.U.A.

Other Interests

Music	Member of N.T.U.A. CoReLab's band "Great Thirds" and Austin's "Garlic Beets" band, amateur Violinist.
Sports	Diploma from the Faculty of Physical Education and Sport Science of the University of Athens (2008-2013). Fun of doing any Sport.

References

José Correa	Professor of Operations Research at the Department of Industrial Engineering of the University of Chile. Webpage: https://www.dii.uchile.cl/~jcorrea/ e-mail: correa@uchile.cl
Evdokia Nikolova	Assistant Professor at the Department of Electrical and Computer Engineering of the Cockrell School of Engineering of the University of Texas at Austin. Webpage: http://users.ece.utexas.edu/~nikolova/ e-mail: nikolova@austin.utexas.edu
Dimitris Fotakis	Assistant Professor at the School of Electrical and Computer Engineering of the National Technical University of Athens. Webpage: https://www.softlab.ntua.gr/~fotakis/ e-mail: fotakis@cs.ntua.gr