

Alexandros Andreas Voudouris

Personal Information

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Education

- 2015 – today **Ph.D. student in Computer Science and Technology**
Department of Computer Engineering and Informatics
University of Patras, Greece
Advisor: Ioannis Caragiannis
- 2013 – 2014 **M.Sc. in Computer Science and Technology**
Department of Computer Engineering and Informatics
University of Patras, Greece
Thesis: *On the efficiency of divisible resource allocation mechanisms*
Advisor: Ioannis Caragiannis
GPA: 9.8/10 (top 1%)
- 2008 – 2013 **Diploma in Computer Engineering and Informatics**
University of Patras, Greece
Thesis: *Search algorithms for natural deduction proofs*
Advisor: Stavros Cosmadakis
GPA: 8.39/10 (top 1)

Schools

- **16th European Agent Systems Summer School (EASSS 2014)**
Chania, Greece, 14 – 18 July 2014
Supported by the Department of Computer Engineering and Informatics, University of Patras
- **Summer school on the Interdisciplinary Analysis of Voting Rules**
Caen, France, 8 – 12 July 2014
Supported by the COST Action IC205 on Computational Social Choice

Scholarships and awards

- Ph.D. scholarship by the Onassis Foundation (2016 – 2018)
- Ph.D. scholarship by the Caratheodory 2013 basic research project E.114 (2014 – 2016)

- Scholarship by the Limmat Foundation (2013)
- Scholarships by the Greek State Scholarships Foundation (IKY) (2008 – 2009, 2011)

Teaching Experience

- TA for the course **Computational Complexity** (Spring 2014)
- TA for the course **Economic Theory and Algorithms** (Fall 2013 – 2016)
- TA for the course **Symbolic Programming Lab** (Spring 2011 – 2012)

Research Interests

- Design and analysis of algorithms
- Approximation algorithms
- Algorithmic game theory
- Computational social choice

Research Projects

- Basic research project E.114, supported by the University of Patras through the research funding program **Caratheodory 2013**, Greece, October 2014 – September 2016
- Basic research project Algorithmic Game Theory, supported by the European Social Fund and Greek national funds through the research funding program **Thales**, April 2014 – September 2014

Research Visits

- University of Oxford, hosted by Dr. Edith Elkind, 15 – 27 February 2015
Supported by the COST Action IC1205 on Computational Social Choice

Talks and Presentations

The efficiency of resource allocation mechanisms for budget-constrained users

- *12th Athens Colloquium on Algorithms and Complexity (ACAC)*, Athens University of Economics and Business, Greece, 24 August 2017

Optimizing positional scoring rules for rank aggregation

- *31st AAAI Conference on Artificial Intelligence (AAAI)*, San Francisco, California, USA, 8 February 2017

How effective can simple ordinal peer grading be?

- *17th ACM Conference on Economics and Computation (EC)*, Maastricht, Netherlands, 26 July 2016

- *11th Athens Colloquium on Algorithms and Complexity (ACAC)*, University of Athens, Greece, 25 August 2016

co-rank: an online tool for collectively deciding efficient rankings among peers

- *30th AAAI Conference on Artificial Intelligence (AAAI)*, Phoenix, Arizona, USA, 14 February 2016

Near-optimal asymmetric binary matrix partitions

- *40th International Symposium on Mathematical Foundations of Computer Science (MFCS)*, Milano, Italy, 24 August 2015
- *1st Algorithmic Game Theory Athens Workshop (AGaThA)*, National Technical University of Athens, Greece, 27 May 2015

Aggregating partial rankings with applications to peer grading in MOOCs

- *14th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)*, Istanbul, Turkey, 8 May 2015, poster presentation
- *10th Athens Colloquium on Algorithms and Complexity (ACAC)*, National Technical University of Athens, Greece, 20 August 2015

Welfare guarantees for proportional allocations

- *M.Sc. thesis defence*, University of Patras, Greece, 9 December 2014 (based on this paper)
- *7th International Symposium on Algorithmic Game Theory (SAGT)*, Patras, Greece, 2 October 2014
- *9th Athens Colloquium on Algorithms and Complexity (ACAC)*, National Technical University of Athens, Greece, 21 August 2014

Journal Publications

- **Near-optimal asymmetric binary matrix partitions**
Fidaa Abed, Ioannis Caragiannis, and Alexandros A. Voudouris
Algorithmica, in press.
- **Efficiency and complexity of price competition among single-product vendors**
Ioannis Caragiannis, Xenophon Chatzigeorgiou, Panagiotis Kanellopoulos, George A. Krimpas, Nikos Protopapas, and Alexandros A. Voudouris
Artificial Intelligence, volume 248, pages 9-25, 2017
- **Welfare guarantees for proportional allocations**
Ioannis Caragiannis and Alexandros A. Voudouris
Theory of Computing Systems, volume 59(4), pages 581–599, 2016

Conference Publications

- **Bounding the inefficiency of compromise**
Ioannis Caragiannis, Panagiotis Kanellopoulos, and Alexandros A. Voudouris
Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI), pages 142-148, 2017
- **Optimizing positional scoring rules for rank aggregation**
Ioannis Caragiannis, Xenophon Chatzigeorgiou, George A. Krimpas, and Alexandros A. Voudouris
Proceedings of the 31st AAAI Conference on Artificial Intelligence (AAAI), pages 430–436, 2017
- **How effective can simple ordinal peer grading be?**
Ioannis Caragiannis, George A. Krimpas, and Alexandros A. Voudouris
Proceedings of the 17th ACM Conference on Economics and Computation (EC), pages 323–340, 2016
- **co-rank: an online tool for collectively deciding efficient rankings among peers**
Ioannis Caragiannis, George A. Krimpas, Marianna Panteli, and Alexandros A. Voudouris
Proceedings of the 30th AAAI Conference on Artificial Intelligence (AAAI), pages 4351–4352, 2016
- **Near-optimal asymmetric binary matrix partitions**
Fidaa Abed, Ioannis Caragiannis, and Alexandros A. Voudouris
Proceedings of the 40th International Symposium on Mathematical Foundations of Computer Science (MFCS), LNCS 9235, Springer, pages 1–13, 2015
- **Efficiency and computational complexity in price competition among single-product vendors**
Ioannis Caragiannis, Xenophon Chatzigeorgiou, Panagiotis Kanellopoulos, George A. Krimpas, Nikos Protopapas, and Alexandros A. Voudouris
Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI), pages 25–31, 2015
- **Aggregating partial rankings with applications to peer grading in massive online open courses**
Ioannis Caragiannis, George A. Krimpas, and Alexandros A. Voudouris
Proceedings of the 14th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), pages 675–683, 2015
- **Welfare guarantees for proportional allocations**
Ioannis Caragiannis and Alexandros A. Voudouris
Proceedings of the 7th International Symposium on Algorithmic Game Theory (SAGT), LNCS 8768, Springer, pages 206–217, 2014

Manuscripts

- **The efficiency of resource allocation mechanisms for budget-constrained users**
Ioannis Caragiannis and Alexandros A. Voudouris
arXiv:1707.03551

Professional Service

(sub)Reviewer: AAMAS 2015, ICALP 2015, WINE 2015, SODA 2017, IJCAI 2017, EC 2017, SAGT 2017