Alexandros Andreas Voudouris

Personal Information

Date of Birth 31 August 1990

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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 IC1205 on Computational Social Choice

Scholarships and awards

- Ph.D. scholarship by the Onassis Foundation (2016 2018)
- \bullet 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 2017)
- 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
- Artificial intelligence

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 Fransisco, 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 (AGαThA), National Technical University of Athens, Greece, 27 May 2015 (invited)

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, volume 80(1), pages 48–72, 2018

• 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 loannis 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 loannis 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 loannis 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

- Truthful mechanisms for ownership transfer with expert advice loannis Caragiannis, Aris Filos-Ratsikas, Swaprava Nath, and Alexandros A. Voudouris arXiv:1802.01308, February 2018
- Mobility-aware, adaptive algorithms for wireless power transfer in ad hoc networks Adelina Madhja, Sotiris Nikoletseas, and Alexandros A. Voudouris arXiv:1802.00342, February 2018
- The efficiency of resource allocation mechanisms for budget-constrained users loannis Caragiannis and Alexandros A. Voudouris arXiv:1707.03551, July 2017

Professional Service

PC member: IJCAI 2018

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