

# 2025 Archimedes Workshop on Algorithmic Game Theory

**Duration:** 2 days - July 15-16, 2025

**Place:** Athens University of Economics and Business (AUEB), Athens, Greece

<https://tinyurl.com/5c7pdyzm>

**Event webpage:**

<https://archimedesai.gr/en/events/archimedes-2025-workshop-on-foundations-of-modern-ai>

**Registration link here:**

<https://docs.google.com/forms/d/1tsMVhUrvHA-LQitlnz0i3EH7dU-p3o45HEkgBVPTpyY/edit>

## **Day 1 (Tuesday, July 15):**

9:00 – 9:20:

*Welcome & Registration*

9:20 – 9:30:

**Opening Remarks**

9.30 – 10.30:

**Tutorial 1, part 1** - “Who Gets What? Fair Division of Indivisible Goods”

**Kurt Mehlhorn**, Director Emeritus of the *Max Planck Institute for Informatics, The Max Planck Society for the Advancement of Science, Germany*, and Senior Professor of Computer Science, *Saarland University, Germany*

10.30 – 11.00:

*Coffee Break*

11.00 – 11.30:

**Talk 1** - “Proportional Fairness in Non-Centroid Clustering”

**Ioannis Caragiannis**, Professor at the Department of Computer Science, *Aarhus University, Denmark*, and Head of the *Computational Complexity & Game Theory* research group

11.30 – 12.00:

**Talk 2** - *"Utilitarian Distortion with Predictions"*

**Alexandros Voudouris**, Associate Professor at the School of Computer Science and Electronic Engineering, *University of Essex, UK*

12.00 – 12.30:

**Talk 3** - *"Online Combinatorial Allocation with Interdependent Values"*

**Rebecca Reiffenhäuser**, Assistant Professor for Theoretical Computer Science, *University of Amsterdam, The Netherlands*, and Member of the *Institute for Logic, Language and Computation*

12.30 – 2.00:

*Lunch (Catered)*

2.00 – 3.00:

**Tutorial 2, part 1** - *"Total Search Problems in Algorithmic Game Theory"*

**Paul Goldberg**, Professor of Computer Science, *Oxford University (Brasenose College), UK*

3.00 – 3.30:

**Talk 4** - *"Improved Last-Iterate Convergence Rates for Bilinear Zero-Sum Games"*

**Michail Fasoulakis**, Lecturer (Assistant Professor) in Theoretical Computer Science, *Royal Holloway, University of London, UK*, and Affiliated/Corresponding Scientist of Abroad at *ICS-FORTH, Greece*

3.30 – 4.00:

*Coffee Break*

4.00 – 5.00:

**Tutorial 3, part 1** - *"Online Learning & Markets"*

**Stefano Leonardi**, Professor at the Department of Computer, Control & Management Engineering, *Sapienza Università di Roma, Italy*

5.00 – 5.10:

*Short Break*

5.10 – 5.40:

**Talk 5** - *"Airdrop Games"*

**Paolo Penna**, Research Fellow at *Input Output Global (IOG)*

5.40 – 6.10:

**Talk 6** - *"Algorithmic Monetary Policies for Blockchain Participation Games"*

**Carmine Ventre**, Professor of Computer Science, and Chair in Computational Finance, and Director of Informatics Finance Hub, and Interim Head of the Department of Informatics, *King's College London, UK*

## **Day 2 (Wednesday, July 16):**

9.00 – 9.30:

*Welcome*

9.30 – 10.30:

**Tutorial 3, part 2** - *"Online Learning & Markets"*

**Federico Fusco**, Assistant Professor, *Sapienza Università di Roma, Italy*

10.30 – 11.00:

*Coffee Break*

11.00 – 11.30:

**Talk 7** - *"Solving Neural Min-Max Games: The Role of Architecture, Initialization & Dynamics"*

**Manolis Vlatakis**, Assistant Professor in the Department of Computer Sciences, *University of Wisconsin-Madison, USA* & Affiliated Researcher at *Archimedes, Athena Research Center, Greece*

11.30 – 12.00:

**Talk 8** - *"Learning with Systematic Bias and Imperfect Data"*

**Alkis Kalavasis**, Postdoctoral Fellow at the Institute for Foundations of Data Science (FDS), *Yale University, USA*

12.00 – 12.30:

**Talk 9** - *"Solving Hidden Monotone Variational Inequalities with Surrogate Losses"*

**Ioannis Mitliagkas**, Associate Professor in the Department of Computer Science and Operations Research (DIRO), *Université de Montréal, Canada* and Staff Research Scientist at *Google DeepMind Montréal, Canada* and Affiliated Researcher at *Archimedes, Athena Research Center, Greece*

12.30 – 2.00:

*Lunch (Catered)*

2.00 – 3.00:

**Tutorial 1, part 2** - *"Who Gets What? Fair Division of Indivisible Goods"*

**Kurt Mehlhorn**, Director Emeritus of the *Max Planck Institute for Informatics, The Max Planck Society for the Advancement of Science, Germany* and Senior Professor of Computer Science, *Saarland University, Germany*

3.00 – 3.30:

**Talk 10** - *"On Recent Advances in Computational Complexity of Team Games and Beyond"*

**Ioannis Panageas**, Assistant Professor at the School of Information & Computer Science, *University of California, Irvine, USA* and Director of *The Games, Optimization, Algorithms, and Learning Lab (GOALLab)* and Lead Researcher at *Archimedes, Athena Research Center, Greece*

3:30 – 4.00:

*Coffee Break*

4.00 – 5.00:

**Tutorial 2, part 2** - “Total Search Problems in Algorithmic Game Theory”

**Paul Goldberg**, Professor of Computer Science, *Oxford University (Brasenose College), UK*

5.00 – 5.30:

**Talk 11** - “Algorithmic Foundations for Contrastive Embeddings”

**Vaggos Chatziafratis**, Assistant Professor of Computer Science & Engineering, University of California, Santa Cruz, USA and Affiliated Researcher at *Archimedes, Athena Research Center, Greece*

## Organizing & Scientific Committee

- **Georgios Amanatidis**, Assistant Professor at the Department of Informatics of the *Athens University of Economics and Business (AUEB), Greece*, and Lead Researcher at *Archimedes, Athena Research Center, Greece*
- **Georgios Christodoulou**, Associate Professor in the School of Informatics at the *Aristotle University of Thessaloniki (AUTH), Greece*, and Lead Researcher at *Archimedes, Athena Research Center, Greece*
- **Dimitris Fotakis**, Professor at the School of Electrical and Computer Engineering, *National Technical University of Athens (NTUA), Greece*, and Lead Researcher at *Archimedes, Athena Research Center, Greece*
- **Evangelos Markakis**, Professor at the Department of Informatics of the *Athens University of Economics and Business (AUEB), Greece*, and Lead Researcher at *Archimedes, Athena Research Center, Greece*
- **Alkmini Sgouritsa**, Assistant Professor at the Department of Informatics of the *Athens University of Economics and Business (AUEB), Greece*, and Lead Researcher at *Archimedes, Athena Research Center, Greece*

## Co-Organizers

