

Curriculum Vitae

Stratis Skoulakis

Personal Info

Full Name	Efstratios Panteleimon Skoulakis
Date of Birth	27/07/1990
Place of Birth	Heraklion, Crete
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Academic Appointments

Nov. 2021-	Postdoctoral Researcher École polytechnique de Lausanne Laboratory for Information and Inference Systems Supervisor: Volkan Cehver
Nov. 2019- Nov. 2021	Postdoctoral Researcher Singapore University of Technology and Design Pillar of Engineering Systems and Design Supervisor: Giorgos Piliouras

Education

2014-2019	PhD in Computer Science National Technical University of Athens School of Electrical and Computer Engineering Supervisor: Prof. Dimitris Fotakis Thesis: " <i>Natural and Efficient Opinion Dynamics through Convex Optimization</i> "
2014-2016	Graduate Diploma (MSc.) <i>Graduate Program in Logic, Algorithms and Computation</i> National University of Athens
2008-2014	Diploma in Electrical and Computer Engineering (5 year degree) National Technical University of Athens

Research Interests

Algorithmic Game Theory • Online Learning • Convex Optimization • Approximation and Online Algorithms • Machine Learning

Publications

- 2023 **Semi Bandit dynamics in Congestion Games: Convergence to Nash Equilibrium and No-Regret Guarantees.**
I. Panageas, S. Skoulakis, L. Viano, X. Wang and V. Cevher
International Conference on Machine Learning (ICML 2023, Oral)
- **STay-ON-the-Ridge: Guaranteed Convergence to Local Minimax Equilibrium in Nonconvex-Nonconcave Games**
Costis Daskalakis, Noah Golowich, Stratis Skoulakis and Manolis Zampetakis
Conference on Learning Theory (COLT 2023)
 - **Min-Max Optimization Made Simple: Approximating the Proximal Point Method via Contraction Maps.**
V. Cevher, G. Piliouras, R. Simm and S. Skoulakis
SIAM Symposium on Simplicity in Algorithms is a conference (SOSA 2023)
- 2022 **Adaptive Stochastic Variance Reduction for Non-convex Finite-Sum Minimization**
A. Kavis, S. Skoulakis, L. Dadi, K. Antonakopoulos and V. Cevher
36th Conference on Neural Information Processing Systems (NeurIPS 2022)
- **Beyond Time-Average Convergence: Near-Optimal Uncoupled Online Learning via Clairvoyant Multiplicative Weights Update**
G. Piliouras, R. Simm and S. Skoulakis
36th Conference on Neural Information Processing Systems (NeurIPS 2022)
 - **Fast Convergence of Optimistic Gradient Ascent in Network Zero-Sum Extensive Form Games**
G. Piliouras, L. Ratliff, R. Simm and S. Skoulakis
15th International Symposium on Algorithmic Game Theory (SAGT 2022)
- 2021 **The Complexity of Constrained Min-Max Optimization**
C. Daskalakis, S. Skoulakis and E. Zampetakis
53rd Annual ACM Symposium on Theory of Computing (STOC 2021)
- **Efficient Online Learning for Dynamic k -Clustering**
D. Fotakis, G. Piliouras and S. Skoulakis
38th International Conference on Machine Learning (ICML 2021)
 - **Online Learning in Periodic Zero-Sum Games***
T. Fiez, R. Sim, S. Skoulakis, G. Piliouras, L. Ratliff
35th Conference on Neural Information Processing Systems (NeurIPS 2021)
 - **On the Approximability of Dynamic Min-Sum Set Cover**
D. Fotakis, P. Kostopanagiotis, V. Nakos, G. Piliouras and S. Skoulakis
48th International Colloquium on Automata, Languages and Programming (ICALP 2021)
 - **Evolutionary Game Theory Squared: Evolving Agents in Evolving Games**
S. Skoulakis, T. Fiez, R. Sim, G. Piliouras and L. Ratliff
35th AAAI Conference on Artificial Intelligence (AAAI 2021)
 - **Counting Induced Subgraphs Under Noise: The Power of Neighborhood Queries**
D. Fotakis, T. Pittas and S. Skoulakis
35th AAAI Conference on Artificial Intelligence (AAAI 2021)

- **Dynamical analysis of the EIP-1559 Ethereum fee market**
S. Leonardos, B. Monnot, D. Reijnders, S. Skoulakis and G. Piliouras *4th ACM conference on Advances in Financial Technologies (AFT 2021)*
- **Transaction Fees on a Honeymoon: Ethereum's EIP-1559 One Month Later**
D. Reijnders, S. Sridhar, B. Monnot, S. Leonardos, S. Skoulakis and G. Piliouras: *4th IEEE International Conference on Blockchain (Blockchain 2021)*
- 2020 **Efficient Online Learning of Optimal Rankings: Dimensionality Reduction via Gradient Descent**
D. Fotakis, T. Lianeas, G. Piliouras and S. Skoulakis
34th Conference on Neural Information Processing Systems (NeurIPS 2020)
- **Online Min-Sum Set Cover problem**
D. Fotakis, L. Kavouras, G. Koumoutsos, S. Skoulakis and M. Vardas
47th International Colloquium on Automata, Languages and Programming (ICALP 2020)
- **Node-Max-Cut and the Complexity of Equilibrium in Linear Weighted Congestion Games**
D. Fotakis, V. Kandiros, T. Lianeas, N. Mouzakis, P. Patsilinos and S. Skoulakis
47th International Colloquium on Automata, Languages and Programming (ICALP 2020)
- 2019 **Reallocating Multiple Facilities on the Line**
D. Fotakis, L. Kavouras, P. Kostopanagiotis, P. Lazos, S. Skoulakis and N. Zarifis
28th International Joint Conference on Artificial Intelligence (IJCAI 2019)
- **Opinion Formation Games with Aggregation and Negative Influence**
M. Epitropou, D. Fotakis, M. Hoefer and S. Skoulakis
Theory of Computing Systems (TOCS 2019)
- 2018 **Opinion Dynamics with Limited Information**
D. Fotakis, V. Kandiros, V. Kontonis and S. Skoulakis
14th International Conference on Web and Internet Economics (WINE 2018)
- 2017 **Opinion Formation Games with Aggregation and Negative Influence**
M. Epitropou, D. Fotakis, M. Hoefer and S. Skoulakis
10th International Symposium on Algorithmic Game Theory (SAGT 2017)
- 2016 **Opinion Dynamics with Local Interactions**
D. Fotakis, D. Palyvos-Giannas and S. Skoulakis
25th International Joint Conference on Artificial Intelligence (IJCAI 2016)

References

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| Costantinos
Daskalakis | Professor at the Electrical Engineering and Computer Science Department of Massachusetts Institute of Technology.
Webpage: http://people.csail.mit.edu/costis/
e-mail: costis@csail.mit.edu |
| Volkan
Cevher | Associate Professor Electrical Engineering Department of Swiss Federal Institute of Technology Lausanne.
Webpage: https://people.epfl.ch/volkan.cevher?lang=en
e-mail: volkan.cevher@epfl.ch |
| Dimitris
Fotakis | Associate Professor at Electrical and Computer Engineering Department of National Technical University of Athens.
Webpage: https://www.softlab.ntua.gr/~fotakis
e-mail: fotakis@cs.ntua.gr |
| Georgios
Piliouras | Assistant Professor at Engineering Systems and Design of Singapore University of Technology and Design.
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