Ilan Reuven Cohen

Curriculum Vitae

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Research Interests

My main research interest lies in the theory of algorithms. Specifically, in the areas of approximation, randomized and online algorithms with game theoretic aspects. My research goal is to develop new algorithmic techniques that improve and simplify our understanding of fundamental problems in computer science.

Education

Tel Aviv University. 2011–2016
Advisor: Prof. Yossi Azar
Dissertation: Online Packing and Covering Problems
Ph.D. in Computer Science

Tel Aviv University. 2008–2010
Advisor: Prof. Yossi Azar
Dissertation: Prompt Mechanisms for Bounded Capacity Auction
M.A in Computer Science

Magna Cum Laude.
GPA – 94.

Technion - Israel Institute of Technology. 2001–2004
B.A in Computer Science

Cum Laude.
GPA – 90.

Experience

Centrum Wiskunde & Informatica in Amsterdam 2018-present

Postdoctoral research fellow

Carnegie Mellon University and University of Pittsburgh 2017-2018

Postdoctoral research fellow

Simons-Berkeley and I-CORE(Israel research excellence center) 2016-2017

Postdoctoral research fellow

Yahoo, New York 2016
Algorithm designer, summer intern

Developed algorithms for ads allocation.

LMY R&D, Tel Aviv 2010–2012
Algorithm designer

Developed algorithms for photogrammetry and image matching.

I.D.F. 2004-2010
Algorithm designer

Teaching

Tel Aviv University 2013-2016
Teaching assistant in Algorithms

Programming Skills

C++, C#, Java, Matlab
Advanced Skills

Honors and Awards

The Fulbright Post-doctoral Scholar Fellowship
2017

The Jorge Deutsch Prize
2016

The Gutwirth foundation scholarships
2015

Noteworthy Activities

Volunteer math instructor, in Educating for Excellence program.
2007-2008

Languages

Hebrew
Mother tongue

English
Fluent

Workshops

The Greece Economic and Algorithmic Theory Week 2014
Paros, Greece

Summer school on Algorithmic Game Theory 2012
Samos, Greece

Publications:

Randomized Algorithms for Online Vector Load Balancing.

Y. Azar , I.R. Cohen, D. Panigrahi

ACM-SIAM Symposium on Discrete Algorithms, **SODA 2018**.

Randomized Online Matching in Regular Graphs.

I.R. Cohen, D. Wajc

ACM-SIAM Symposium on Discrete Algorithms, **SODA 2018**.

Online Algorithms for Packing and Covering Problems with Convex Objectives.

Y. Azar , I.R. Cohen, D. Panigrahi (Joint submission with two other groups)

IEEE Symposium on Foundations of Computer Science, **FOCS 2017**.

Online Lower Bounds via Duality.

Y. Azar , I.R. Cohen, A. Roytman

ACM-SIAM Symposium on Discrete Algorithms, **SODA 2017**.

Packing Small Vectors.

Y. Azar , I.R. Cohen, A. Fiat, A. Roytman

ACM-SIAM Symposium on Discrete Algorithms, **SODA 2016**.

Serving in the Dark should be done Non-Uniformly.

Y. Azar, I.R. Cohen

Automata, Languages, and Programming International Colloquium, **ICALP 2015**.

Pricing Online Decisions: Beyond Auctions.

I.R. Cohen, A. Eden, A. Fiat, L. Jez

ACM-SIAM Symposium on Discrete Algorithms, **SODA 2015**.

Tight Bounds for Online Vector Bin Packing.

Y. Azar, I.R. Cohen, S. Kamara and B. Shepherd

Symposium on Theory of Computing Conference, **STOC 13**.

The Loss of Serving in the Dark.

Y. Azar, I.R. Cohen and I. Gamzu

Symposium on Theory of Computing Conference, **STOC 13**.

Manuscripts:

Tight Bounds for Online Edge Coloring

I.R. Cohen, B. Peng, D. Wajc

Submitted to STOC 2018.

Dynamic Pricing of Servers on Trees.

I.R. Cohen, A. Eden, A. Fiat, L. Jez

2018

Online Algorithms for 2-dimensional Load Balancing

I.R. Cohen, D. Panigrahi

2018

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