Dr. Yuval Rochman

Address: 12 Nachal Ayalon, Tzur Yitzhak, Israel

Mobile: +972-50-4422500

Email: yuvalroc@gmail.com

University Web site: www.cs.tau.ac.il/~yuvalroc

Professional Experience:

2018 –   Pliops: Algorithm developer
- Developing architecture and optimization algorithms for a SSD controller
- Created a high-level simulator for SSD controller (Phyton)
- Submitted three provisional patents.

2018 – : Adjunct lecturer (מורה מן החוץ) in Tel-Aviv univeristy, Computer Science
- Network Communications (Spring 2018-2019)
    - Teaching network communication principles

2011 – 2016   Teaching Assistant and Exercise examiner – TA, Computer Science
- Network Communications (Fall 2014-2015, Fall 2015-2016)
    - Teaching network communication principles, socket programming (C language).
- Project Software (Spring 2011-2012, Spring 2012-2013):
    - Teaching C language.
- Computational Complexity, Calculus 1A, Data Structures (Exercise examiner).

2014 – 2015   Marvell Technology Group
- Algorithm Researcher:
    - Developing optimization algorithms in switches

2010 – 2012   Net-HD Consortium
- Algorithm Developer: VOD algorithms for placement of resources inside DSLAM caches.

2009 (Summer Internship)   Clicksoftware

Programming Languages
- Major: C, JAVA, Matlab, Python
- Minor: PHP, x86 Assembly, Scheme

University Awards and Mathematical Olympics

2012-2017: Scholarship from the Ministry of Science, Technology, and Space

2010-2017: Excellence scholarship for PhD students

2009-2010: Dean's List, Exact Sciences Faculty, Tel Aviv University

2009: Excellence promoting scholarship for undergraduate students

2008: Excellency prize of the School of Mathematics, TAU

2007, 2008 : Citation for The International Mathematics Tournament of the Towns, Tel Aviv University

2006: First place award for the Israeli Mathematics Olympics (By the Weizmann Institute)

2005: First place award for The Mathematics Olympics at Tel-Aviv Metropolis

Education

2010 – 2017   Ph.D   Computer Science (Summa Cum Laude – GPA 95), Tel Aviv University

Ph.D.   Thesis: Resource allocation in Cloud Computing

2006 – 2010   B.Sc.   Computer Science (Summa Cum Laude – GPA 96) and Mathematics
(summa cum laude – GPA 99), Tel Aviv University

High School: Shevah Mofet, Tel Aviv

List of publications

- Yuval Rochman, Hanoch Levy, Eli Brosh, "Max Percentile Replication for Optimal Performance in Multi-Regional P2P VOD Systems*, The International Conference on Quantitative Evaluation of SysTems (QEST)*, London September 2012 .

- Yuval Rochman, Hanoch Levy, Eli Brosh, "Efficient replication in multi-regional peer supported VOD systems", *SIGMETRICS Performance Evaluation Review* 40(3): 68-70 (2012), London, June 2012.

- Yuval Rochman, Hanoch Levy, Eli Brosh, "Resource Placement and Assignment in Distributed Network Topologies", *INFOCOM*, Turin, 2013.

- Yuval Rochman, Hanoch Levy, Eli Brosh, "Efficient resource placement in cloud computing and network applications", *SIGMETRICS Performance Evaluation Review* 42(2): 49-51 (2014), Austin, USA, June 2014.

- Y. Rochman, H. Levy, and E. Brosh, "Efficient resource placement in cloud computing and network applications- technical report", http://www.cs.tau.ac.il/~yuvalroc/technical%20reports/Yuval_effeicnt_resource.pdf, 2014. To be submitted.

- Y. Rochman, H. Levy, and E. Brosh, "On dynamic placement of resources in cloud computing- technical report" http://www.cs.tau.ac.il/~yuvalroc/technical% 20reports/Yuval_on_dynamic.pdf, 2015. To be submitted.

- Y. Rochman, H. Levy, E. Brosh, and G. Gilboa-Freedman, "Resource repositioning in distributed clouds - technical report", https://goo.gl/Tjntfw, 2015. Submitted.

- Y. Rochman and A. Tamir, "On sensitivity of dynamic min cost flows - technical report", https://goo.gl/SWsQ8V, 2016. To be submitted.

- Yuval Rochman, Hanoch Levy, Eli Brosh, "Dynamic placement of resources in cloud computing and network applications". *Performance Evaluation*. 115: 1-37 (2017).

Hobbies
- Co-Founder of Media Noche (Salsa dancing) Herzliya
- Salsa instructor and a DJ
- A dancer in NanoChe salsa group