Hadassa (Katz) Daltrophe

Software Engineering
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Education

2016-2018	**Post-doctoral**	**Communication Systems Engineering** Ben-Gurion University, Beer-Sheva, Israel. Host: Prof. Chen Avin
2011-2016	**Ph.D.**	**Computer Science** Ben-Gurion University, Beer-Sheva, Israel. Thesis: *Big Data Abstraction: Exploration, Interpolation and Extrapolation* Advisors: Prof. Shlomi Dolev and Prof. Zvi Lotker
2007-2009	**M.Sc.**	**Computer Science** Ben-Gurion University, Beer-Sheva, Israel. Thesis: *Curvature-base statistics of edge co-occurrence* Advisor: Prof. Ohad Ben-Shahar
2003-2005	**B.Sc.**	**Computer Science** & **Bioinformatics** Ben-Gurion University, Beer-Sheva, Israel.

Scientific Publications

Peer reviewed journals

C. Avin, **H. Daltrophe**, B. Keller, Z. Lotker, C. Mathieu, D. Peleg, and Y.A. Pignolet. (2020) "Biased Preferential Attachment Model: Homophily and Minorities in Social Networks", *Physica A: Statistical Mechanics and its Applications*, 124723.

H. Daltrophe, S. Dolev, and Z. Lotker. (2016) "Big data interpolation: An efficient sampling alternative for sensor data aggregation", *Acta Informatica*, $doi : 10.1007/s0023601602888$.

H. Daltrophe, S. Dolev, and Z. Lotker. (2015) "Probabilistic Connectivity Threshold for Directional Antenna Widths", *Theor. Comput. Sci.*, $584 : 103 - 114$.

Peer reviewed journals (under review)

H. Daltrophe, S. Dolev, and Z. Lotker. (2019) "Mending the Big-Data Missing Information", *IEEE Transactions on Knowledge & Data Engineering*.

Conference Articles (rigorously peer reviewed papers, oral presentation)

C. Avin, **H. Daltrophe**, Z. Lotker, and D. Peleg."Assortative Mixing Equilibria in Social Network Games", *7th EAI International Conference on Game Theory for Networks (Gamenets) 2017*.

H. Daltrophe, S. Dolev, and Z. Lotker."Mending the Big-Data Missing Information", *International Conference on the Science of Electrical Engineering (ICSEE) 2016*.

H. Daltrophe, S. Dolev, and Z. Lotker."Brief Announcements: Mending the Big-Data Missing Information", *The International Symposium on DIStributed Computing (DISC) 2016*, Lecture Notes in Computer Science, Springer, 2016.

H. Daltrophe, S. Dolev, and Z. Lotker."Probabilistic Connectivity Threshold for Directional Antenna Widths", *20th International Colloquium on Structural Information and Communication Complexity, SIROCCO 2013, Revised Selected Papers*, pages $225 - 236$, Lecture Notes in Computer Science, Springer, 2013.

H. Daltrophe, S. Dolev, and Z. Lotker. "Big Data Interpolation Extrapolation and Prediction", *World Summit on Big Data and Organization Design (BDOD)*, Paris, 2013.

H. Daltrophe, S. Dolev, and Z. Lotker. "Big data interpolation: An efficient sampling alternative for sensor data aggregation", *ALGOSENSORS 2012*, pages $66 - 77$, Lecture Notes in Computer Science, Springer, 2013.

Pre-prints

C. Avin, **H. Daltrophe**, Z. Lotker, and D. Peleg."Assortative Mixing Equilibria in Social Network Games. CoRR abs/1703.08776 (2017)".

Abstracts and Presentations at informal international seminars

C. Avin, **H. Daltrophe**, Z. Lotker, and D. Peleg."Assortative Mixing Equilibria in Social Network Games", *Israel Algorithmic Theory (AGT) Day*, Weizmann Institute of Science, February 2018.

H. Daltrophe, S. Dolev, and Z. Lotker. "Mending Missing Information in Big-Data", *IBM Haifa Security Seminar*, IBM Haifa Research Labs, December 2015.

H. Daltrophe, S. Dolev, and Z. Lotker. "Probabilistic Connectivity Threshold for Directional Antenna Widths", *ACM womENcourage conference*, The University of Manchester, March 2014.

H. Daltrophe, "Probabilistic Connectivity Threshold for Directional Antennas Width", *Students Probability Day IV* (SPD4),The Weizmann Institute of Science, May 2013.

H. Daltrophe and O. Ben-Shahar, "Curvature-base statistics of edge co-occurrence", *The Lynne and William Frankel Center for Computer Science*, Ben Gurion University, Beer-Sheva, Israel, 2009.

Dissertations

H. Daltrophe, "Big Data Abstraction: Exploration, Interpolation and Extrapolation", PhD. Thesis, Ben Gurion University, Beer-Sheva, Israel, 2016.

H. Daltrophe, "Curvature-base statistics of edge co-occurrence", M.Sc. Thesis, Ben Gurion University, Beer-Sheva, Israel, 2009.

Honors, Awards, & Fellowships

2017-18 Navon Post-Doctoral Scholarship
Ministry of Science & Technology, Israel

2016-17 Kreitman Post-Doctoral Scholarship
Ben-Gurion University of the Negev, Beer-Sheva, Israel

2015 Distinguished Achievement Award in Teaching
Department of Computer Science, Ben-Gurion University of the Negev, Beer-Sheva, Israel

2015 Research Excellence Fellowship
Department of Computer Science, Ben-Gurion University of the Negev, Beer-Sheva, Israel

2014 womENcourage 2014 Grant
ACM womENcourage conference

2013 Research Excellence Fellowship
Department of Computer Science, Ben-Gurion University of the Negev, Beer-Sheva, Israel

2013 Green Campus Award
Ben-Gurion University of the Negev, Beer-Sheva, Israel

2012 Research Excellence Fellowship
Department of Computer Science, Ben-Gurion University of the Negev, Beer-Sheva, Israel

2011 Full scholarship for Doctoral's degree.
Department of Computer Science, Ben-Gurion University of the Negev, Beer-Sheva, Israel

2007 Full scholarship for Master's degree.
Department of Computer Science, Ben-Gurion University of the Negev, Beer-Sheva, Israel

2003 Suzan Zlotovski Scholarship for Academic Excellence.
Ben-Gurion University of the Negev, Beer-Sheva, Israel

Employment History

2017-Present **Lecture**
SCE, Shamoon Collage of Engineering
Ashdod

2016-2018 **Postdoctoral Associate**
Communication Systems Engineering Department
Ben-Gurion University of the Negev

2007-2016 **Research, Lecture** and **Teaching Assistant**
Department of Computer Science
Ben-Gurion University of the Negev

2005-2006 **R&D Engineer**, *Orbograph*, Israel.

Teaching Activities

Web Information Systems, SCE Shamoon Collage of Engineering

Data Mining Application, SCE Shamoon Collage of Engineering

Social Networks Analysis, SCE Shamoon Collage of Engineering

Internet Communication, SCE Shamoon Collage of Engineering

Introduction to Communication, SCE Shamoon Collage of Engineering

Data Structures, Ben-Gurion University of the Negev,Beer Sheva

Introduction to Computer Science, Ben-Gurion University of the Negev, Beer Sheva

Data Structures for Israeli Air force, Ben-Gurion University of the Negev, Hatzerim Airbase

Introduction to Computer Science for Israeli Air force, Ben-Gurion University of the Negev, Hatzerim Airbase

Introduction to Programming for Information Systems, Ben-Gurion University of the Negev, Beer Sheva

Introduction to Programming Engineering, Sapir Academic College, Sderot