Curriculum Vitae

Dr. Amikam Hauptman

Contact information

Date of Birth April 23rd, 1975
Country of birth Israel **E-Mail address** amihau@gmail.com
Marital Status Married

Education

2006 – 2009 **Ph.D.** , cum laude, in the Computer Science Department, Ben-Gurion University, Israel. Dissertation Topic: Combinatorial Games , Heuristic Search

2003 – 2005 M.Sc. in computer science, Ben-Gurion University of the Negev, Israel.

1997 - 2000 B.Sc in Computer Science and Psychology, Tel Aviv University, Israel.

Publications

2016 A. Hauptman, **Are Evolutionary-Computation Based Methods Comparable to other State-of-The-Art Methods for Community Detection?** To appear in Late-Breaking Abstracts of the Genetic and Evolutionary Computation Conference (GECCO 2016). Denver, Colorado July 17-24, 2016.

2012 A. Elyasaf, A. Hauptman, and M. Sipper. **Evolutionary Design of FreeCell Solvers**. IEEE Transactions on Computational Intelligence and AI in Games, 4(4):270 –281, December 2012. **Best Paper Award.**

2011 A. Elyasaf, A. Hauptman, and M. Sipper. **GA-FreeCell: Evolving Solvers for the Game of FreeCell**. In Proceedings of the Genetic and Evolutionary Computation Conference (GECCO 2011). Dublin, Ireland, July 12-16, 2011. ACM.

2011 A. Elyasaf, Y. Zaritsky, A. Hauptman, and M. Sipper. **Evolving Solvers for FreeCell and the Sliding-Tile Puzzle**. In Proceedings of the Fourth Annual Symposium on Combinatorial Search, (SoCS 2011). Castell de Cardona, Barcelona, Spain, July 2011.

2010 A. Hauptman, A. Elyasaf, and M. Sipper. **Evolving hyper heuristic-based solvers for Rush Hour and FreeCell.** In Proceedings of the 3rd Annual Symposium on Combinatorial Search (SoCS 2010), July 2010.

2009 A. Hauptman, A. Elyasaf, M. Sipper, A. Karmon. **GP-Rush: Using Genetic Programming to Evolve Solvers for the Rush Hour Puzzle**. In Proceedings of the Genetic and Evolutionary Computation Conference (GECCO 2009), July 2009. ACM.

2009 M. Orlov, M. Sipper, A. Hauptman. **Genetic And Evolutionary Algorithms and Programming: General Introduction and Application to Game Playing**. In Encyclopedia for Complexity and Computer Science 2009. 4133-4145.

2007 M. Sipper, A. Hauptman, Y. Azaria, and Y. Shichel. **Designing an evolutionary strategizing machine for game playing and beyond**. In IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews, vol. 37, no. 4, pp. 583-593, July 2007

2007 A. Hauptman, M. Sipper, **Emergence of Complex Strategies in the Evolution of Chess Endgame Players**. In Advances in Complex Systems 10(supp01): 35-39 (2007)

2007	A. Hauptman and M. Sipper. **Evolution of an efficient search algorithm for the Mate-in-N problem in Chess**. In Proceedings of 10th European Conference on Genetic Programming (EuroGP2007), **EvoPhD: Best Paper award**
2005	A. Hauptman, M. Sipper, **Analyzing the Intelligence of a Genetically Programmed Chess Player**. Late Breaking Papers, Genetic and Evolutionary Computation Conference (GECCO-2005), Washington.
2005	A. Hauptman and M. Sipper. **GP-EndChess: Using genetic programming to evolve chess endgame players**. In Maarten Keijzer, Andrea Tettamanzi, Pierre Collet, Jano I. van Hemert, and Marco Tomassini, editors, Proceedings of the 8th European Conference on Genetic Programming, volume 3447 of Lecture Notes in Computer Science, pages 120-131, Lausanne, Switzerland, April 2005. Springer.

Scholarships and Awards

2014	**2015 IEEE CIS Outstanding TCIAIG Paper award** "Evolutionary Design of FreeCell Solvers"
2013	**Gold HUMIES award** (Human-Competitive Results) for the paper *"Evolutionary Design of FreeCell Solvers"*
2011	**Gold HUMIES award** (Human-Competitive Results) for the paper *"GA-FreeCell: Evolving Solvers for the Game of FreeCell"*
2009	**Bronze HUMIES award** (Human-Competitive Results) for the paper *"GP-Rush: Using Genetic Programming to Evolve Solvers for the Rush Hour Puzzle"*
2007	**Silver HUMIES award** (Human-Competitive Results) for the paper " Evolution of an efficient search algorithm for the Mate-in-N problem in Chess "
2007	**Best Paper award** in the Evo-PhD Workshop at EurpGP 2007
2007	**Zabey Prize** for excellence in M.Sc research
2005	**Friedman Award** for excellence in research. Ben-Gurion University of the Negev.

Referees

Springer	EuroGP: EVOstar, The Leading European event for Bio-Inspired Computation

Professional Experience

2015 – present	Senior Staff Lecturer, Computer Science Department, Sapir Academic College, Sderot
2014 – 2015	Senior Machine Learning Researcher, Mobli Inc., Tel-Aviv –– Design and implement machine learning systems for social media.
2012-2014	Content Analysis Researcher, CTO Team, NICE Systems , Raanana – Conducted Machine Learning research
2010-2012	Researcher and Algorithms Developer, RAFAEL Advanced Weapon Systems, – Image Processing Department
2006 - 2009	Lecturer, Ben-Gurion University.
2003 – 2005	Teaching Assistant, Ben-Gurion University

Military Service

1993 – 1996	Patriot Battalion - Team Commander. Rank: First Sergeant.

Volunteering

2013-Present	The Foundation for The Benefit of Holocaust Victims in Israel
2011-2012	Education for Excellence: Educating children from Israel's socio-economic and geographic periphery toward academic and personal excellence
2007-2010	Leket Israel: The National Food Bank
2006-Present	LATET Israeli Humanitarian Aid

Programming languages

C\C++, Python, Matlab, Java, LISP,JavaScript, PHP

Languages

Hebrew	Native language	**English**	Fluent