

Dr. Rina Azoulay - Curriculum Vitae

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Research Interest:

Multi agent systems; auctions; machine learning; distributed learning; reinforcement learning; probabilistic models; game theory, intelligent tutoring systems, Internet research.

Education:

PhD.

1997-2001:

Bar Ilan University, Computer Science.

Thesis title - "Protocols, Strategies and Learning Techniques for Reaching Agreements More Effectively".

Advisor: Prof. Sarit Kraus.

M.Sc.

1995-1997:

Bar Ilan University, Computer Science.

Thesis title - "Negotiation about Data Allocation in Distributed Systems " *Summa Cum Laude*. (thesis grade 98, average course grade 97).

Advisor: Prof. Sarit Kraus.

B.A.

1992-1995:

Bar Ilan University, Economics and Computer Science

Summa Cum Laude (average course grade 97).

Volunteer Experience:

1991-2: Yad Sarah Organization, Jaffa, lending medical equipment.

Publications:

Journal Papers

R. Azoulay, E. David, M. Avigal, and D. Hutzler, **The impact of learning software on improving reading comprehension skills**, International Journal of e-Education, e-Business, e-Management and e-Learning, Number 3 Volume 10 Number 3, 2020.

O. Rozenblit, Y. Haddad, Y. Mirsky, R. Azoulay, **Machine Learning Methods for SIR Prediction in Cellular Networks**, Physical Communciation, 2018.

R. Azoulay and E. David, 2017, **Auction Mechanisms for Preference Driven Ad Exchanges**, Multiagent and Grid Systems 13 (3), 203-236, 2017.

R. Azoulay, R. Katz and S. Kraus, **Efficient Bidding Strategies for Cliff-Edge Problems**, *Autonomous Agents and Multi-Agent systems*, 28 (2), 290-336, 2014.

R. Azoulay and E. David, **Truthful and Efficient Mechanisms for Website Dependent Advertising Auctions**, Multiagent and Grid Systems, 28(2): 290-336 2014.

E. David and R. Azoulay-Schwartz, **Optimal Mechanisms for Multi-Attribute English Auctions**, *Advancements and Developments in Applied Mathematics* Vol 1 2012, issue 2 March, p. 41-80.

R. Azoulay and J. Bar-Ilan, **A Map of Non-Profit Organization Websites in Israel**, *Journal of the American Society for Information Science*, 2011.

R. Azoulay-Schwartz and D. Dor, **The Impact of Available Information on Negotiation Results**, *Annals of Mathematics and Artificial Intelligence*, 2011, Vol. 60, Issue 3

E. David, R. Azoulay-Schwartz, and S. Kraus, **Bidding in Sealed-bid and English Multi-Attribute auctions**. *Decision Support Systems*, v.42 n.2, p.527-556, November 2006

R. Azoulay-Schwartz and S. Kraus, **Stable repeated strategies for information exchange between two autonomous agents** Artificial Intelligence 154 (1-2), 2004, 43-93.

R. Azoulay-Schwartz and S. Kraus and J. Wilkenfeld, **Exploitation vs. Exploration in Ecommerce: Choosing a Supplier in an Environment of Incomplete Information**, *International Journal on Decision Support Systems* 38(1):1-18, 2004.

E. David, R. Azoulay-Schwartz and S. Kraus, **An English Auction protocol for Multi-Attributes Items**, in J. Padget, D. Parkes, N. Sadeh O. Shehory and W. Walsh, (Eds.), **Agent Mediated Electronic Commerce IV: Designing Mechanisms and Systems**, *LNAI vol. 2531*, 2002, pp. 52-68.

R. Azoulay-Schwartz and S. Kraus, **Negotiation on Data Allocation in Multi-Agent Environments**, *Autonomous Agents and Multi-Agent Systems*, 2001.

Conferences:

Merav Allouch, Amos Azaria and Rina Azoulay, **Detecting sentences that may be harmful to children with special needs**, ICTAI 2019.

R. Azoulay and S. Reches, **UAV Flocks Forming for Crowded Flight Environments**, ICAART 2019.

R. Azoulay and E. David, **Ad Placement Mechanism for Public Displays of Private Owners**, ICSEE 2018.

Merav Allouch, Amos Azaria, Rina Azoulay, Ester Ben-Izchak, Moti Zwilling and Ditza A. Zachor, **Automatic Detecting of Insulting Sentences in Conversation**, ICSEE 2018.

Y. Mirsky, Y. Haddad, O. Rozenblit and R. Azoulay, **Predicting Wireless Coverage Maps Using Radial Basis Networks**, CCNC 2018.

R. Azoulay and E. David, **Ad Exchange: Intention Driven Auction Mechanisms for Mediating Between Publishers and Advertisers**, WI-IAT (2) 2015: 220-225.

Esther David and Rina Azoulay, (2015) **It Does Matter Who I sell to and Who I Buy From: Weighted Bilateral VCG** , WI-IAT (3) 2015: 126-129.

D. Hutzler, E. David, M. Avigal and R. Azoulay, **Learning Methods for Rating the Difficulty of Reading Comprehension Questions**, SWESTE, Israel, 2014.

R. Azoulay, E. David, D. Hutzler and M. Avigal, **Adaptation Schemes for Question's Level to be Proposed by Intelligent Tutoring Systems**, ICAART, France, 2014.

E. David and R. Schwartz, **No More Damaging Ads on Your Own Webpage - Strategy Proof Mechanisms for Ad Placement**. *IAT 2012*: 140-145

R. Azoulay-Schwartz and E. David, **Comparative Incentive Compatible Mechanisms for Site Oriented Advertising Auctions** , BISFAI 2011.

R. Azoulay-Schwartz and Z. Ilani, **Interactive Tutoring System for Intelligent use of databases**, Opening Gates in Teacher Education, Mofet, Israel, January 2011.

R. Azoulay-Schwartz and Z. Ilani, **An Intelligent Tutoring System for Efficient Usage of Database**, ITRE 2006, Proceedings of the 4th International Conference on Information Technology: Research and Education, Tel Aviv, Israel, October 2006.

D. Dor-Shifer, R. Azoulay-Schwartz and S. Kraus, **The value of Information in Negotiation with Incomplete Information**, ITRE 2006, Proceedings of the 4th International Conference on Information Technology: Research and Education, Tel Aviv, Israel, October 2006.

E. David, R. Azoulay-Schwartz and S. Kraus, **Bidders' Strategy for Multi-Attribute Sequential English Auction with a Deadline**, AAMAS 2003, Melbourne, Australia, pp 457-464.

E. David, R. Azoulay-Schwartz and S. Kraus, **The Design of the Multi-Attribute English Auction with a Deadline Vs. the eBay Auction Protocol**, AMEC 2003, Melbourne, Australia, poster version.

R. Azoulay-Schwartz and S. Kraus, **Acquiring an Optimal Amount of Information for Choosing from Alternatives**. CIA 2002, *best paper award*.

E. David, R. Azoulay-Schwartz and S. Kraus, **Protocols and Strategies for Automated Multi-Attributes Auctions**, Proceedings of the 1st international conference on autonomous agents and multi agent systems (AMAS02), 2002, Bologna, Italy, pp. 77-85..

R. Azoulay-Schwartz and S. Kraus, **Stable Strategies for Sharing Information among Agent**, *Proceedings of IJCAI 2001*, Seattle, Washington, *pages 1128-1134*

R. Azoulay-Schwartz and S. Kraus, **Assessing Usage Patterns to Improve Data Allocation via Auctions**, *Proceedings of ICMAS 2000*, Boston, *pages 47-54*.

R. Schwartz and S. Kraus, **Negotiation On Data Allocation in Multi-Agent Environments**, *Proceedings of AAAI 1997*, Providence, RI, pages 29-35.

Refereed Book Chapters:

R. Azoulay, E. David, M. Avigal and D. Hutzler, **Adaptive Task Selection in Automated Educational Software: A Comparative Study**, In *Intelligent Systems and Learning Data Analytics in Online Education*, Elsevier, 2020.

R. Schwartz and S. Kraus, **Bidding Mechanism for Data Allocation in Multi-Agent Environments**, In M. P. Singh and A. S. Rao and M. J. Wooldridge, editors, *Intelligent Agents IV, Lecture Notes in Artificial Intelligence*, volume 1365, pages 61-75. Springer-Verlag, 1998.

Patents:

Yisroel A. Mirsky, Yoram Haddad, Orit Rozenblit, Rina Azoulay, Predicting Wireless Coverage Maps Using Radial Basis Networks, May 2018, USPTO provisional 62/665,552.

Rina Azoulay, Yoram Haddad, Orit Rozenblit, Machine Learning Methods for SIR Prediction in Cellular Networks, July 2018, USPTO provisional 62/701,774.

Awards and Fellowships:

2019-2020	Magnet WIN, with Dr. Yoram Hadad.
2019	JCT Outstanding Lecturer
2017-2019	Magnet HERON, with Dr. Yoram Hadad.
2010, 2011-2019	Research foundation, JCT
2008, 2009, 2015, 2019	JCT excellence reward.
2002	CIA 2002 best paper award.
2001	IJCAI01 Travel Grant.
1998-2001	Eshkol fellowship (PhD studies).
1996-1998	Eshkol fellowship (MSc studies).
1997	AAAI97 Travel Grant.
1997, 1995, 1993	Rector's awards, Bar Ilan Univ.

Teaching Experience:

2000-: Jerusalem College of Technology.

Courses Coordinated:

Data Structures part B,
Algorithms Analysis

Courses Taught:

Introduction to Computing (C++, JAVA),
Data Structures part A,
Data Structures part B,
Algorithms Analysis,
Functional and Logical programming (Python, Scheme, Lisp and Prolog),
Principles of Programming Languages,
Parallel Algorithms.

1995-2002: Bar Ilan University.

Courses Taught:

Introduction to Computing (C++),
Object Oriented Software Development,
Artificial Intelligence Seminar.

Courses TAed:

Introduction to Computing (C++),
Data Structures,
Artificial Intelligence (Lisp).

Former Graduate Students:

Dorit Hutzler, **An Intelligent Tutoring System to Improve Reading Comprehension.** (joint work with Dr. M. Avigal and Dr. E. David)

Daphna Dor-Shifer. **The Value of Information in Negotiation** (joint with Prof. Sarit Kraus), May 2004.

Current Graduate Students:

Merav Allouch, **Autonomous agents for assisting children with special needs.**
(joint work with Dr. Amos Azaria, Ariel University).

Professional Activities:

JCT committee member: Committee for teaching quality, Library committee,
Research committee, Covid-19 committee.
2020: Participating in a Safe@Home Hackathon against domestic violence.
2019: Program committee, AAI 2019.
2017: Program Committee, IJCAI 2017 Special Track on AI & Autonomy.
2011: Publicity and Publications Chair of AMEC 2011, PC for CIKM 2011.
Reviewing activities: Elsevier ColMOOC Book, PIMRC2020, AAI2019,
IJCAI2017, Journal of Applied Logic, IJCAI16, CIKM, Artificial Intelligence

