

SARIT KRAUS Curriculum Vitae

www.cs.biu.ac.il/~sarit

Research Interests :

The development of intelligent systems, human-agent (including robots) interaction, multi-agent systems, social networks.

Education :

Ph.D.- 1989- The Hebrew University of Jerusalem, Computer Science.

Thesis title - "Planning and Communication in a Multi Agent Environment", advisor - Prof. Daniel Lehmann.

M.Sc.- 1983, The Hebrew University of Jerusalem, Computer Science (with distinction). Thesis title - "Decision Procedures For Time and Chance", advisor - Prof. Daniel Lehmann.

B.Sc.- 1982, The Hebrew University of Jerusalem, Mathematics and Computer Science (with distinction).

Academic Employment :

2016- present: Chair, Department of Computer Science, Bar-Ilan university.

2001 - present: Professor, Department of Computer Science, Bar Ilan University (1995 - 2001: Associate Professor, 1991 - 1995: Senior Lecturer).

2001 - present: Adjunct Professor, Institute for Advanced Computer Studies (1995 - 2001: Adjunct Associate Professor, 1991 - 1995: Adjunct Assistant Professor).

1997-1998: Visiting Associate Professor, Institute for Advanced Computer Studies and Department of Computer Science, University of Maryland.

1989 - 1990: Visiting Assistant Professor, Institute for Advanced Computer Studies and Department of Computer Science, University of Maryland.

Summer 1989: Visiting Research Associate, Department of Computer Science, Stanford University.

1988 - 1989: Faculty Research Assistant, Institute for Advanced Computer Studies and Department of Computer Science, University of Maryland.

1984 - 1988: Instructor, Dept. of Computer Science, The Hebrew University of Jerusalem.

1983: Teaching Assistant Dept. of Computer Science, The Hebrew University of Jerusalem.

Major Awards and Honors :

ACM Fellow, 2015.

Citation:

For contributions to artificial intelligence, including multi-agent systems, human-agent interaction and non-monotonic reasoning.

About the award:

ACM's most prestigious member grade recognizes the top 1% of ACM members for their outstanding accomplishments in computing and information technology and/or outstanding service to ACM and the larger computing community.

IFAAMAS Influential Paper Award, 2014

Onn Shehory and Sarit Kraus. Methods for task allocation via agent coalition formation. *Artificial Intelligence*, 101(1-2): 165-200, 1998

About the award:

The International Foundation for Autonomous Agents and Multi-Agent Systems has established an influential paper award to recognize publications that have made seminal contributions to the field. Such papers should represent the best and most influential work in the field. The award is open to any paper that was published at least 10 years before the relevant AAMAS takes place.

Academia Europaea, 2012: member

About the award:

Academia Europaea is an European, non-governmental association acting as an Academy. Its members that are elected following peer review by the nominations committee are scientists and scholars who collectively aim to promote learning, education and research. Founded in 1988, with over 2000 members which includes leading experts from the physical sciences and technology, biological sciences and medicine, mathematics, the letters and humanities, social and cognitive sciences, economics and the law.

Advanced ERC grant, 2011: *Computers Arguing with People*

About the award:

ERC Advanced Grants allow exceptional established research leaders of any nationality and any age to pursue ground-breaking, high-risk projects that open new directions in their respective research fields or other domains.

EMET Prize, 2010: Citation as follows:

The EMET Prize is awarded to Prof. Sarit Kraus for her expertise in the field of artificial intelligence, her significant contribution to the field of autonomous agents and for her studies in the field of multiagent systems

About the award:

The EMET Prize is an annual prize given for excellence in academic and professional achievements that have far reaching influence and significant contributions to society.

The Prizes, in a total amount of one million US Dollars, are sponsored by the A.M.N. Foundation for the Advancement of Science, Art and Culture in Israel, under the auspices of and in cooperation with the Prime Minister of Israel.

ECCAI Fellow, 2008:

About the award:

The ECCAI Fellows program was started in 1999 to recognize individuals who have made significant, sustained contributions to the field of artificial intelligence (AI) in Europe. It honors only a very small percentage of the total membership of all ECCAI member societies (up to a maximum of 3).

ACM/SIGART Autonomous Agents Research Award, 2007:

Citation as follows:

The selection committee for the ACM/SIGART Autonomous Agents Research Award is pleased to announce that Prof Sarit Kraus, of Bar-Ilan University, Israel, is the recipient of the 2007 award. Prof Kraus is well known for her work on formal models of multi-agent systems. In particular, she pioneered the development of techniques for computational negotiation, automated coalition formation, cooperative search, and the logical formalization of cooperation and multi-agent shared plans. She has also made significant and lasting contributions to the wider field of AI, in areas such as search and non-monotonic reasoning.

In addition to her substantial research contributions, Prof Kraus has served the autonomous agents research community in many ways. She was PC chair of the Fourth International Conference on Multi-Agent Systems (ICMAS2000), and general co-chair of the Fourth International Conference on Autonomous Agents and Multi Agent Systems (AAMAS2005). She has been an associate editor of the AAMAS journal since its founding, and an editor of AI Journal since 2000. Sarit is also an Adjunct Professor of Computer Science at the Institute for Advanced Computer Studies, University of Maryland.

About the award:

ACM SIGART, in collaboration with the International Conference on Autonomous Agents, instituted an annual award for excellence in research in the area of autonomous agents.

IFAAMAS Influential Paper Award, 2007

B. J. Grosz and S. Kraus (1996) "Collaborative Plans for Complex Group Actions" Artificial Intelligence 86, pages 269-358.

About the award:

The International Foundation for Autonomous Agents and Multi-Agent Systems has established an influential paper award to recognize publications that have made seminal contributions to the field. Such papers should represent the best and most influential work in the field. The award is open to any paper that was published at least 10 years before the relevant AAMAS takes place.

AAAI Fellow, 2002:

Citation as follows:

For significant contributions to modeling of negotiation, collaboration, and non-monotonic reasoning, including theoretical advances and applications in various computational domains.

About the award:

The Association for the Advancement of Artificial Intelligence's Fellows program was started in 1990 to recognize individuals who have made significant, sustained contributions—usually over at least a ten-year period—to the field of artificial intelligence.

IJCAI Computers and Thought Award, 1995:

Citation as follows:

Sarit Kraus is Senior Lecturer at Bar Ilan University, Israel. She is also a regular visitor and contributor to research at the Institute for Advanced Computer Studies at the University of Maryland. As part of her doctoral research, she wrote a program that plays the game "Diplomacy". This led her to investigate the application of game theory and non-classical logics to automated negotiations. She has also made contributions to both theoretical and practical aspects of nonmonotonic reasoning.

About the award:

The IJCAI Computers and Thought Award is presented by the International Joint Conferences on Artificial Intelligence (IJCAI), recognizing outstanding young scientists in artificial intelligence.

Other Awards and Honors :

- Israeli discoveries and development that influenced the world, 2016.
- Best robotic video prize at the IJCAI 2015 video competition for "Intelligent Agent Supporting Human-Multi-Robot Team Collaboration" video by Ariel Rosenfeld, Oleg Maksimov, Noa Agmon and Sarit Kraus.
- Emunah's Woman of the Year award for 2010.
- A special commendation from the city of Los Angeles, together with Prof. Tambe, Prof. Ordonez and their USC students, for the creation of the ARMOR security scheduling system, 2009.
- IBM faculty award, 2001.

Best paper awards:

1. Adaptive Learning Agents (ALA 2017) workshop. A. Rosenfeld, M. E. Taylor and S. Kraus. Speeding up Tabular Reinforcement Learning Using State-Action Similarities.
2. AAAI-15 Blue Sky track. S. Kraus. Intelligent Agents for Rehabilitation and Care of Disabled and Chronic Patients.
3. The Third International Conference on Advances in Information Mining and Management (IMMM 2013). Ariella Richardson, Gal A. Kaminka, Sarit Kraus, REEF: Resolving Length Bias in Frequent Sequence Mining.
4. International Conference on Autonomous Agents and Multi-Agent Systems, 2011. (AAMAS 2011). Ulle Endriss, Sarit Kraus, Jerome Lang and Michael Wooldridge. Designing Incentives for Boolean Games.
5. The 8th International Conference on Advances in Mobile Computing and Multimedia (MoMM2010), R. Adany, S. Kraus and Fernando Ordonez. Uncertain Personal Advertisement Allocation for Mobile TV.
6. International Conference on Autonomous Agents and Multi-Agent Systems, 2008. (AAMAS 2008). P. E. Dunne, W. van der Hoek, S. Kraus and M. Wooldridge. Cooperative Boolean Games.
7. International workshop on Cooperative Information Agents 2007 (CIA07). Avi Rosenfeld, Claudia Goldman, Gal Kaminka and Sarit Kraus An Agent Architecture for Hybrid P2P Free-Text Search.
8. International Workshop on Safety and Security in Multi-Agent Systems 2006 (SASEMAS 06). R. Meshulam, S. Reches, A. Yarden, S. Kraus. MLBP: MAS for Large-Scale Biometric Pattern Recognition. 3rd International Workshop on Safety and Security in Multiagent Systems.
9. International Workshop on Safety and Security in Multi-Agent Systems 2005 (SASEMAS 05). Praveen Paruchuri, Don Dini, Milind Tambe, Fernando Ordonez, Sarit Kraus, Between collaboration and competition: An Initial Formalization using Distributed POMDPs.
10. International workshop on Cooperative Information Agents, 2002 (CIA02). R. Azoulay-Schwartz and S. Kraus. Acquiring an Optimal Amount of Information for Choosing from Alternatives.

11. International workshop on Agent Theories, Architectures, and Languages, 1998 (ATAL98). O. Shehory, S. Kraus and O. Yadgar. Goal Satisfaction in large scale agent-systems: A transportation example.

Finalist for Best Paper awards:

1. ECAI 2006. Raz Lin, Sarit Kraus, Jonathan Wilkenfeld and James Barry. An Automated Agent for Bilateral Negotiation with Bounded Rational Agents with Incomplete Information,
 2. International Conference on Autonomous Agents and Multi-Agent Systems, 2009 (AAMAS 2009). Raz Lin, Yinon Oshrat, Sarit Kraus, Investigating the Benefits of Automated Negotiations in Enhancing Negotiation Skills of People.
 3. International Conference on Autonomous Agents and Multi-Agent Systems, 2013 (AAMAS 2013). A. Xin Jiang, Z. Yin, Chao Zhang, Milind Tambe, Sarit Kraus. Game-theoretic Randomization for Security Patrolling with Dynamic Execution Uncertainty, Proc. Of AAMAS 2013.
- M. Landau Mifal Hapayis prize for students, 1986.
 - Prize of the Israel Association of University Women, 1984.
 - Eshkol scholarship 1983.

Research Grants (selected) :

- The Computation Intensive Integrated Research Environment, excellent young scientists equipment support prog, Basic Research Foundation, (joint with Yisrael Gottlieb), 1992, \$20,000.
- Crisis Negotiation Environment Project, United States Institute of Peace, (joint with Jonathan Wilkenfeld, University of Maryland), 1995-1997, \$25,000.
- IMAP: Intelligent Multimedia Authoring tools for electronic Publishing, GIF, (with Elisabeth André and W. Wahlster), 1999-2001, \$110,000.
- Stochastic and Heuristic methods for the dynamic assignment parking problem, Ministry of Science (Secondary PI), 1998-1999, 314,500 IS.
- Intelligent Multimedia Application GENERator (IMAGEN), EC, the Fifth Framework Programme, (with 5 European partners, including DFKI), 2001-2002, 1,290,000 Euro.
- Automated WebTrader, GM-UMI, 2001-2002, \$150,000.
- Israeli Science Foundation center of excellent, Communication Networks: Topology, Dynamics and Applications, 2003-2010, 1,375,000 IS.
- Data Collection and Integration in Very Large-scale Networks, MAFAT, 2003-2005, IS 310,00.
- Dynamic distributed tuning in 4G networks using cooperative negotiations, MAGNET: REMON, 2004-2007, IS685,000.
- Dynamic utility based clustering for On-Demand Personalized Services MAGNET: NEGEV, 2006-2010, \$360,000
- Online Identity Management Using Multiple Attributes for Compound Behavior Patterns, MAFAT, 2007-2009, 320,000IS.
- A Spectrum of Social Models in Theory and Robots, Israel Science Foundation (ISF) 2007-2010, (secondary PI).

Israeli Minister of Trade , MAGNETON, Cooperative training: "Man-Machine", 2009-2011, \$244,000.

Pearls of Wisdom, Distributed Data Sharing Mechanisms for Sensor Networks, 2009-2011, \$120,000.

Manipulation-Resistant Protocols for the Internet, Israeli Ministry of Science, 2010-2012, \$33,550.

Using Adaptation to Improve User Acceptance of Automated Systems, GM, 2010-2014, \$314,000.

Using Metacognition to Find Important Missing Social Network Data, MAAFAT 2010-2014 \$280,000.

Google Interuniversity center for Electronic Markets and Auctions, 2011-2013, \$30,000.

Providing optimal recommendations according to the utility functions of the user and the operator, Israeli Minister of Trade , MAGNETON, 2011-2013, \$218,000 .

Providing People with Arguments and Contextual Information during Argumentative Discussion, Intel Research Institute for Computational Intelligence (ICRI-CI), 2013-2016, \$150,000.

Noninvasive structured prediction for predicting left ventricular filling pressure, Magneton, 2014-2016, \$496,117.

Efficient management of a flock of robots in warehouses, Meymad, 2014-2015, \$130,000.

How to Change a Group's Collective Decision, ISF, 2014-2017, \$67,600.

LAW-TRAIN: Mixed-reality environment for training teams in joint investigative interrogation-Intelligent interrogation training simulator, Horizon 2020, 2015-2018, Coordinator; 10 partners 5,095,688 Euro (BIU's budget is 1,181,250Euro.)

Resilient human-in-the-loop multiagent optimization, JAPAN-ISRAEL SCIENTIFIC RESEARCH COOPERATION, NIS800,000, 2017-2020.

The Development of algorithms for the identification of online frauds using transfer learning, Magneton, NIS 633,300, 2016-2017

Postdoctorate Advisor:

1. Hagit Hel-Or, 1994.
2. Eitan Ephrati, 1995.
3. Shlomo Argamon, 1994-1997,
4. Claudia Goldman, 1999-2001.
5. Ahuva Mualem, 2005–2006.
6. Raz Lin, 2008-2010.
7. Zinovi Rabinovich, 2010-2011.
8. Noam Hazon, 2012-2013.

Former Students:

PhD Students :

1. Eldad De-Mendossa, A Relational Database based on Neural Networks (joint with Dr. Yosi Shiftan), February 1996.
2. Onn Shehory, Multi-agent Cooperation, June 1997.

3. Ariel Felner, Improving known search techniques and using them in dynamic environments, September 2001.
4. Rina Schwartz, Protocols, Strategies and Learning Techniques for Reaching Agreements More effectively in Multi-Agent Systems, May 2002.
5. Merav Hadad, Combining Cooperative Planning and Temporal Reasoning in Dynamic Multi-agent Systems, May 2003.
6. Esther David, Agents for Multi-Attribute Auctions, March 2004.
7. Osher Yadgar, Efficient Algorithms in Large-Scale Agent Systems, December 2005.
8. Dudi Sarne, Negotiation and Coalition Formation in Costly Environments, January 2006 (Excellent).
9. Avi Rosenfeld, Dynamic Coordination Methods for Robotic Teams (joint with Gal Kaminka), June 2007.
10. Efrat Manisterski, Protocols and strategies for agents teamwork, June 2007.
11. Raz Lin, Automated Agents for Bilateral Negotiation with Bounded Rational Agents under Uncertainty, March 2008.
12. Roni Katz, Efficient automated negotiators using generic and demographic opponent modeling, June 2008.
13. Michal Chalamish, Automated agents for mediated negotiations and simulation, February 2009.
14. Ram Meshulam, Cooperative Agents in Partially Known Environments, March 2009.
15. Noa Agmon-Segal, Models and Algorithmic Approaches for Cooperative Multi-Robot Systems (with Gal Kaminka), June 2008 (Excellent).
16. Inon Zukerman, Agent Models for Enhanced Interaction in Cooperative and Competitive Environments (with Jeff Rosenschein), October 2009.
17. Shulamit Reches, Statistical Models Assisting in Decision Making, May 2010.
18. Noam Hazon, Social interaction under uncertainty in multi agent systems (joint with Yonatan Aumann), 2010.
19. Ariella Richardson, Online Classification of Multiple Attribute Time Series (with Gal Kaminka), November, 2011.
20. Ron Adany, Optimization in Dynamic Environments, January 2013.
21. Noam Peled, Modeling argumentation strategies in humans and computer agents (with Kobi Gal), February, 2014.
22. Tammar Machness, Analysis and Algorithms for Team Formation and Inner-Communication, June 2014.
23. Galit Haim, Human-Computer Agent Negotiation in Different Cultures, December 2014.
24. Amos Azaria, Automated Agents for Human Persuasion (with Yonatan Auman), March 2015 (Received IFAAMAS Victor Lesser Distinguished Dissertation Award).
25. Sigal Sina, Covering and Uncovering Hidden Information, May 2016.

Master Students :

26. Avner Shoshany, Path-Based Inheritance Systems: An Implementation (joint with Prof. Martin Golumbic), October, 1994.

27. Maier Fenster, Coordination between Autonomous Agents without Communication: Using Focal-Point Techniques, November, 1994.
28. Amir Evenchik-Inference System for Argumentation in Negotiations between Automatic Agents, October 1995.
29. Galit Lemel, A Strategic Model for Negotiation among Autonomous Agents, December, 1995.
30. Orna Schechter, Sharing Resources through Negotiation in Multi-Agent Environments, November, 1996.
31. Ayelet Globerman, A modal active-logic with focus of attention for reasoning in time, January, 1997.
32. Sigalit Sina, Tasks execution in an unknown environment (joint with Shlomo Engelson), May, 1997.
33. Rina Schwartz, Negotiation Between Agents about File Allocation in Distributed Environment, June 1997.
34. Michal El-Ran, Models and Algorithms for Secure Knowledge Bases, June 1997.
35. Meirav Hadad, Cooperation Among Agents, June 1997.
36. Ariel Stollman, Negotiation Methods for Automatic Agents, June 1997.
37. Beatriz Krymolowski, A Distributed Information System for Parking Allocation (joint with Orly Kremien), September, 1997.
38. Orna Aroch, Distributed Problem Solving in Multi-Agent Environment, November, 1997.
39. Esther David, Cooperative Information Agents, March, 1998.
40. Osher Yadgar, A physics-oriented approach for distribution of delivery tasks in large scale automated-agent systems, September, 1998.
41. Revital Darshan-Vaknin, Environment Mapping by a Robot while Executing Tasks (joint with Shlomo Engelson), February, 1999.
42. Haim Fayerstein, Strategies and methods of learning to improve performance in auctions, August, 2000.
43. Aspir Freitsis, Negotiations in the pollution sharing problem, August, 2000.
44. Penina Hoz-Weiss, Automated Negotiator for Fishing Dispute, August 2001.
45. Lea Tsaban, Automated intelligent content selection tools for electronic newspapers, December 2001.
46. Roni Stern, Real time Optimal path searches, (joint with Ariel Felner), January 2002.
47. Michal Halamish, Learning Users Interests for Providing Relevant Information, March 2002.
48. Raz Lin, Attaining Fast and Successful Search in E-Commerce Environments, June 2002.
49. Alex Pomeransky, The Manpower Collector Problem. (joint with Ariel Felner), October 2002.
50. Shimon Pomeransky, Finding Alternatives to Best Path. (joint with Ariel Felner), October 2002.
51. Evyatar Sharabi, Distributed algorithms for large-scale agent systems, November 2002.

52. Gilad Taase, Coalition Formation in the RFP domain with incomplete information (joint with Onn Shehory), January, 2004.
53. Ram Meshulam, Improving Memory-Based-Heuristics, (joint with Ariel Felner), March 2004.
54. Yaron Shoshani, Multi-agent Physical A* using Large Pheromones (joint with Ariel Felner), March 2004.
55. Daphna Shifer, The Value of Information in Negotiation (joint with Rina Azoulay-Schwartz), May 2004.
56. Ariela Richardson, Heuristic routing in communication networks (joint with Yuval Shavitt), June 2004.
57. Shavit Talman, Multi-personality agents in multi-agent environment, October 2004.
58. Roni Parshani, Using Learning to optimize agent movement in Dynamic Gossip Networks, October 2004.
59. Rotem Toister, Automated Mediation for Bilateral Negotiation in a Crisis Simulation, January 2005.
60. Moty Havlin, The influence of Social Dependencies on Decision-Making in Environments with Full Visibility, March 2005.
61. Aner Yarden, Reliable and Efficient Distribute Algorithms for Verification in Very Large Scale Systems, March 2005.
62. Saar Rosenberg, Improved Cooperative Negotiation in a Multi-Agent System for Real-Time Load Balancing of Mobile Cellular Network, January 2007.
63. Tammar Machnes, Utility Based Clustering, October 2007.
64. Ortal Bitton, Automated negotiators using generic learning model in multi-agents environments, December 2007.
65. Gilad Armon (with Gal Kaminka), Supporting Collaborative Activity, January 2008.
66. Victor Shafran (with Gal Kaminka), Multilateral Matchmaking and Hybrid Coverage in Multi Agent Systems, December 2008.
67. Igor Vainer, Obtaining Scalable and Accurate Classification in Large Scale Spatiotemporal Domains, November, 2009 (with Gal Kaminka).
68. Yinon Oshrat, Using General Opponent Modeling to Improve Negotiation Outcomes (with Jeff Rosenschein), November, 2009.
69. Shai Shelomai, In-Network Aggregation Along Routing For Detection and Tracking in Wireless Sensors Networks, November 2011.
70. Ron Eyal, Identifying Missing Node Information in Social Networks, October 2012.
71. Moshe Bittan, Modelling Human Strategic Decisions using Facial Expressions and History, November 2013.
72. Asaf Frieder, Effective Coordination in Mixed Agent-Human Teams, March 2014.
73. Efrat Sless, Multi-Robot Adversarial Patrolling: Detecting and Responding to Coordinated Attacks (with Noa Agmon), 2015.
74. Liat Sless, Forming Coalitions and Facilitating Relationships for Completing Tasks in Social Networks (with Noam Hazon), 2015.

Current Students:

PhD Students :

1. Maier Fenster, Automated Agents That Affect Human Decision Making Using Framing.
2. Ariel Rosenfeld, Automated agents for advice provision - enhancing human capabilities and performance.
3. Moshe Bittan, Life Like Performance of Virtual Humans.
4. Mor Sinay, Efficient Strategies for Spatio Temporal Tasks.
5. Hanan Rosemarin, Optimizing Agent–Human Interaction.
6. Erez Hartuv
7. Yaniv Oshrat
8. Elad Sarafian
9. Ruth Eliezer

Master Students :

10. Avraham Shvartzon
11. Akiva Kleinerman
12. Naftali Waxman
13. Hadas Ben Akun
14. Moshe Cohen, Extended study on human aspects in speeding up reinforcement learning.
15. Albert Harounian
16. Matan Ben-Noah
17. Karin Sheri
18. Yosi Shrem

Participation in Thesis committees: External to BIU :

1. Praveen Paruchuri, Keep the adversary guessing: Agent security by policy randomizing, University of Southern California, April 2007.
2. Jean Oh, A Few Good Agents: Multi-Agent Social Learning, Carnegie Mellon University, May 2009.
3. Tsz-Chiu Au, Synthesis of Strategies from Interaction Traces for Noisy Multi-Agent Environments, University of Maryland, College Park, August 2008.
4. Yoram Bachrach, Computational Complexity of Egalitarian Mechanisms – Measuring Power and Inequality, Hebrew University, 2009.
5. Dmytro Tykhonov, Designing Generic and Efficient Negotiation Strategies, Delft University of Technology.
6. Michael Zuckerman, Algorithmic Game Theory and Computational Social Choice, Hebrew University, 2011.
7. Nils Bulling, Modelling and Verifying Abilities of Rational Agents, Clausthal University of Technology Germany, 2010.
8. Maria Vanina Martinez, Contributions to Personalizable Knowledge Integration, University of Maryland, 2011.

9. James Pita, The Human Element: Addressing Human Adversaries in Security Games, University of Southern California, 2012.
10. Bastian Blankenburg, Coalition Formation among Rational Agents in Uncertain and Untrustworthy Environments, Saarland University, 2013.
11. Sam Barrettt, Making Friends on the Fly: Advances in Ad Hoc Teamwork, University of Texas, Austin, 2014.
12. Stefano V. Albrecht, Utilizing Policy Types for Effective Ad Hoc Coordination in Multiagent Systems, University of Edinburgh, UK, 2015.
13. Harmen de Weerd, If You Know What I Mean; Agent-Based Models for Understanding The Function of Higher-Order Theory of Mind, University of Groningen, The Netherlands, 2015.
14. Chanhun Kang, Diffusion, Infection and Social network Databases, University of Maryland, College Park, 2015.
15. Anshul Sawant Computational Analysis of Intelligent Agents, Social and Strategic Settings, University of Maryland, College Park, 2015.

Scientific Activities :

Patents:

1. US 6,449,632 B1, Apparatus and methods for Agent-Based Feedback collection in a Data Broadcasting Network
Inventors: Esther David, Shlomo Kipnis, Sarit Kraus, David Richardson.
2. UK GB 2348530 B Collecting user feedback in a broadcasting System 2007
Inventors: Esther David, Shlomo Kipnis, Sarit Kraus, David Richardson.
3. Voting by peers with limited resources
US 8038061 B2, 2011.
Inventors: Meir Kalech, Sarit Karus, Gal A. Kaminka, and Claudia V. Goldman-Shenhar.
4. A Method and a System for Matching between Network Nodes.
US 7808909 B2, 2010.
Inventors: Victor Shafran, Gal A. Kaminka, Sarit Kraus, and Claudia V. Goldman-Shenhar.
5. Data Sharing in a Group of Peers with Limited Resources; 2007
Inventors: Gilad Armon-Kest, Sarit Kraus, and Gal Kaminka.
US Patent application No. 11/882,294.
6. Searching in Peer-to-Peer Networks; Pending
US 20080195597 A1, 2008.
Inventors: Avi Rosenfeld, Gal Kaminka, and Sarit Kraus.
7. Optimizing a security patrolling strategy using decomposed optimal Bayesian Stackelberg solver

US 8224681 B2, 2012

Inventors: Milind Tambe, Praveen Paruchuri, Fernando Ordonez, Sarit Kraus, Jonathan Pearce and Janusz Marecki.

8. Agent security via approximate solvers

US 8364511 B2, 2013.

Inventors: Milind Tambe, Praveen Paruchuri, Fernando Ordonez, Sarit Kraus, Jonathan Pearce and Janusz Marecki. US Provisional Application No. 60/980,128.

9. Gametheory model for patrolling an area that accounts for dynamic uncertainty.

US Patent Application 14/216,449

Inventors: A. X. Jiang, Z. Yin, C. Zhang, M. Tambe, S. Kraus.

Invited Lectures at Conferences and International Schools (selected):

- Invited lecture at ECAI94, the 11th European Conference on Artificial Intelligence, Amsterdam, on “Interaction and Collaboration in Multi-agent Systems”
- Invited lecture at SCAI’97 Helsinki, on Strategic Negotiation and Cooperation Among Autonomous Agents.
- A lecturer at the 1998 GULP summer school on Logic Programming in Italy on “intelligent agents.”
- Invited lecture at ATAL-99, Orlando, Florida, July 15-17, 1999 on “Agents for Information Broadcasting.”
- A lecturer at the First European Agent Systems Summer School (EASSS’99), The Netherlands, July 26-30, 1999, on “Automated negotiations.”
- Invited lecturer at the Second European Agent Systems Summer School (EASSS’00), Germany, August, 2000 on “Multiagent coordination and cooperation: challenges and techniques.”
- A lecturer at the Summer School Advanced Course on Artificial Intelligence ACAI-01, Prague, Czech Republic, July, 2-13, 2001.
- Invited talk at the AAI Fall Symposium, Negotiation Methods for Autonomous Cooperative Systems , November 2001 on “Real-Time Negotiations”.
- Invited talk at UKMAS 2001, Oxford, December 2001.
- Invited talk at the Seventh International Symposium on Artificial Intelligence and Mathematics, Florida, January, 2001 on Real-time cooperation: Adversarial domains vs. cooperative domains.
- Invited talk at the Symposium on Logic in Games and Multiagent Systems, University of Liverpool, UK, December, 2002.
- UCS distinguished lectures series, 2005.
- Invited talk at AAMAS 2007.
- Invited talk at MBC2008, September 2008.
- Invited talk at AMEC May, 2010.
- Invited talk at PROMAS May, 2010.

- Invited lecturer at the IFAAMAS South Eastern European Summer School on Multi-Agent Systems, Bucharest, July, 2010.
- Invited talk at the 2010 Applied Human Factors and Ergonomics Conference, Florida, July 2010.
- Invited tutorial at ECAI 2010, Portugal, August 2010.
- Invited talk at EUMAS 2010, Paris, France, December 2010.
- Keynote talk at the Social Computing, Behavioral-culture Modeling conference, (SBP) , Maryland USA, March 2011.
- Invited talk at the ACAN 2011, AAMAS, Taipei, May 2011.
- Invited talk at BISFAI, Ramat-Gan, June 2011.
- Invited talk at the AAAI Spring Symposium on Game Theory for Security, Sustainability and Health 2012.
- Invited talk at 2020 Vision: Israel's Perils and Prospects, BESA Center, 2013.
- IDC Interdisciplinary Innovation Forum inspired by TED, 2013.
- Invited talk at Dagstuhl seminar 2014.
- Keynote talk at Eleventh International Workshop on Argumentation in Multi-Agent Systems (ArgMAS 2014).
- Keynote talk at Towards Better and more Affordable Healthcare: Incentives, Game Theory, and Artificial Intelligence workshop, 2014.
- Invited tutorial at the 2014 Software Summit: 2014 IEEE CS International Conference on Software Science, Technology, and Engineering (SwSTE'2014) on Intelligent Systems for Homeland Security, 2014.
- Keynote speaker at the 2014 Conference on Technologies and Applications of Artificial Intelligence, Taipei.
- Invited talk at Multiagent Interaction without Prior Coordination (MIPC) Workshop, AAAI, Texas 2015.
- Keynote speaker at the Chais Conference on Innovation in Learning Technologies, Israel, 2015.
- Keynote speaker at ACM IKDD CODS, Bangalore, 2015.
- Keynote speaker at TARK 2015, CMU USA.
- Keynote Speaker WI-IAT, Singapore 2015.
- Invited talk at the Artificial Intelligence: Implications and Solutions conference, Yuval Neeman's workshop on Science, Technology and Security, 2016.
- Invited pannelist: Deutsche Telekom 24H event, 2016.
- Keynote speaker at AVIOS- HIT 2017.
- Israel Machine Vision Conference (IMVC), 2017.
- Keynote speaker Multiyeda 2017.
- Strachey lecture, Oxford, 2017.

Board of Directors: Board of directors of the International Foundation for Multi-agent Systems (IFAAMAS), 2000-2012. 2014-present.

Editor: Associate editor of *Annals of Mathematics and Artificial Intelligence*, 2002- present., Associate editors of *Journal of Artificial Intelligence Research*, 2015- present, Associate editor of *Artificial Intelligence*, 2004-2008.

Editorial Board :

- Guest Editor of a special issues of *Annals of Mathematics and Artificial Intelligence*, volumes 15(1) 1995, 20(1-4) 1997, and 25(1-2), 1999.
- Editorial board member of the *Annals of Mathematics and Artificial Intelligence*, 1994- present.
- Editorial board member of the *Journal of Artificial Intelligence Research*, 1997-2000.
- Editorial board member of *Journal of Autonomous Agents and Multi-Agent Systems*, 1998-present.
- Editorial board member of *AI Communications*, 1997-2004.
- Editorial board member of the *Artificial Intelligence Journal*, 2000-2008.
- Editorial board member of *Web Semantics: Science, Services and Agents on the World Wide Web*, 2002-2005.
- Advisory board member of the *Studies in Logic and Practical Reasoning* series.
- Editorial board member of *ACM Transactions on Intelligent Systems and Technology*, 2010-2013.
- The *Journal of Philosophical Logic (JPL)*, 2010 -present

Organization of Conferences:

- Program chair of the Third Bar-Ilan Symposium on the Foundations of Artificial Intelligence, June, 1993.
- Symposium chair of the Fifth Bar-Ilan Symposium on the Foundations of Artificial Intelligence, June, 1997.
- Member of the advisory committee of IJCAI-97, Nagoy Japan, August, 1997.
- Program co-chair of the Fourth International Conference on Multi-Agent Systems (ICMAS'2000), July, 2000, Boston, MA, USA.
- Symposium chair of the Seventh Bar-Ilan Symposium on the Foundations of Artificial Intelligence, June, 2001.
- Member of the advisory committee of IJCAI-05, Edinburgh, July 2005.
- General Co-chair, AAMAS 2005, The Netherlands.
- Symposium chair of the Ninth Bar-Ilan Symposium on the Foundations of Artificial Intelligence, June, 2007.
- Symposium chair of the Tenth Bar-Ilan Symposium on the Foundations of Artificial Intelligence, June, 2009.
- Program co-chair of HuCom10 - Second International Working Conference on Human Factors and Computational Models in Negotiation, the Netherlands, (2010).
- Special track co-chair for Virtual Agents track of AAMAS 2014, France.
- Program co-chair IEEE SWSTE 2014.
- Senior member track co-chair of AAAI 2016.
- Chair of IJCAI 2019.

National Services:

International Quality Assurance Committee for Computer Science, Israeli Council of Higher Education, 2013–2014.

Program Committees member (selected): 10th Israeli Symposium on Artificial Intelligence and Computer Vision, December 1993.

KR-94, Bonn, Germany.

ECAI Workshop on Agent Theories, Architectures, and Languages, August 1994, Amsterdam, The Netherlands.

ICMAS-95, June 1995, California, USA.

BISFAI-95, June 20-22, 1995 Ramat-Gan and Jerusalem, Israel.

IJCAI-95, August 20-25, Montreal, 1995.

IJCAI-95 workshop on Agent Theories, Architectures, and Languages Montreal, August 1995.

AAAI-96, August 4-8, Oregon, 1996.

ECAI-96, August 12-16 Hungary, 1996.

KR-96, November 1996, USA.

ECAI Workshop on Agent Theories, Architectures, and Languages, August, Hungary 1996.

ICMAS-96, December 1996, Japan.

CIA-97, Kiel, Germany, February, 1997.

AAAI97, Rhode Island, July 27-31, 1997.

ATAL-97, Rhode Island, July 24-26, 1997.

ICMAS-98, Paris, France, July 2-8, 1998.

ATAL-98, Paris, France, July 2-8, 1998.

AAAI-98, Madison, Wisconsin, July 26-30, 1998 .

AMET-98, Agents'99, Seattle, WA, US, May 1-5, 1999.

IJCAI-99, Sweden, August 1999.

BISFAI-99, Ramat-Gan, June 1999.

ATAL-99, Orlando, Florida, July 15-17, 1999.

AAAI-99 workshop on Negotiation, July 18, 1999. AMEC-2000, Barcelona, Spain, June, 2000.

CIA-2000, Boston, USA, July, 2000.

ATAL-2000, Boston, USA, July, 2000.

ECAI-2000, Berlin, Germany, August, 2000.

GTDT 2000, the second Workshop on Game Theoretic and Decision Theoretic Agents Boston, USA, July, 2000.

GTDT-2001, Spring Symposium at Stanford, March, 2001.

Agents-2001, Montreal, Canada, May, 2001.

ATAL-2001, Seattle, WA, USA, August, 2001.

CIA-2001, Modena, Italy, September, 2001.

AAMAS-2002, Italy, July, 2002.

ECAI-2002, France, July, 2002.
CIA-2002, Italy, September, 2001.
RoboCup 2002, Turkey, June 2002.
GTDT 2002, Edmonton, Canada, July 2002.
IJCAI-2003, Mexico, August, 2003.
AAMAS-2003, Melbourne, July, 2003.
CIA-2003, Helsinki, August, 2003.
ICEC 2003, Pittsburgh, PA, USA October, 2003.
GTDT 2003
First IEEE Symposium on Multi-Agent Security and Survivability, Philadelphia, USA, 2004.
Second IEEE Symposium on Multi-Agent Security and Survivability, Philadelphia, USA 2005.
CIA 2006 University of Edinburgh, UK 2006.
ECAI 2006, Italy, 2006.
AAMAS 2006, Japan, 2006.
AAMAS 2007, USA, 2007.
AAAI 2007, Vancouver, British Columbia, Canada.
ACM Conference on Electronic Commerce, San Diego, USA 2007.
First International Conference on Computational Cultural Dynamics, USA 2007.
CIA-2007, The Netherlands 2007.
AAMAS 2008, Portugal 2008.
AAAI 2008, Chicago, USA 2008.
AAMAS Hungary 2009.
IJCAI, USA 2009.
ECAI Portugal, 2010.
AAMAS, Taipei, 2011.
IJCAI, Barcelona, 2011.
AAAI, San Francisco, 2011.
AAMAS, Spain, 2012.
ECAI, France, 2012.
AAAI, Toronto, 2012.
AAAI, Washington, 2013
AAMAS, Minnesota, 2013.
KR, Austria, 2014.
AAMAS, Paris, 2014.
AAAI, Texas, 2015.
ACM-EC, Portland, 2015.
IJCAI, Argentina, 2015.

Coordination, France, 2015,
AAMAS, Singapore, 2016,
IJCAI, NY, 2016.

SARIT KRAUS: Publications

(Prof.)

Books :

1. V.S. Subrahmanian, P. Bonatti, J. Dix, T. Eiter, S. Kraus, F. Ozcan and R. Ross. *Heterogeneous Agent Systems: Theory and Implementation*, MIT Press, Cambridge, USA, June, 2000.
2. S. Kraus. *Strategic Negotiation in Multi-Agent Environments*, MIT Press, Cambridge, USA, September, 2001.
3. F. Dignum, V. Dignum, S. Koenig, S. Kraus, M. P. Singh and M. Wooldridge (editors). *4th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2005)*, July 25-29, 2005, Utrecht, The Netherlands ACM 2005.
4. P. Paruchuri, J. P. Pearce, J. Marecki, M. Tambe, F. Ordonez and S. Kraus. *Keep the Adversary Guessing: Agent Security by Policy Randomization*, VDM Verlag, USA June, 2008.
5. S. Fatima S. Kraus and M. Wooldridge. *Principles of Automated Negotiation*, Cambridge University Press, 2014.

Journal Articles:

6. S. Kraus and D. Lehmann. Knowledge, Belief and Time, *Theoretical Computer Science*, 58:155-174, 1988.
7. S. Kraus, D. Lehmann and M. Magidor. Nonmonotonic Reasoning, Preferential Models and Cumulative Logics, *Artificial Intelligence journal*, 44:167–207, 1990.
8. D. Etherington, S. Kraus and D. Perlis. Limited Scope and Circumscriptive Reasoning, *International Journal of Expert Systems*, special issue on the Frame problem, 3(3): 207-217,1990. (Also appeared in K. M. Ford and P. Hayes, editors, *The Frame Problem in Artificial Intelligence*, Advances in Human and Machine Cognition. JAI Press, Greenwich, Connecticut, 1992.)
9. C. Baral, S. Kraus and J. Minker. Combining Multiple Knowledge Bases, *IEEE Transactions on Knowledge and Data Engineering* 3(2): 208-220, June 1991.
10. B. Thomas, A. Schwartz and Y. Shoham and S. Kraus. Preliminary Thoughts on an Agent Description Language, *International Journal of Intelligent Systems*, special volume of Temporal Issues in AI, 6(5): 497–508, August 1991.
11. S. Kraus, E. Ephrati and D. Lehmann. Negotiation in a Non-cooperative Environment, *Journal of Experimental and Theoretical Artificial Intelligence journal*, 3(4):255-282, 1991.
12. E. Etherington, S. Kraus and D. Perlis. Nonmonotonicity and the Scope of Reasoning, *Artificial Intelligence journal*, 52(3): 221-262, December 1991.
13. S. Kraus, J. Wilkenfeld, M. Harris and E. Blake. The Hostage Crisis Simulation, *Simulation and Gaming*, 23(4):398-416, December 1992.
14. S. Kraus, D. Perlis and J. Horty. Reasoning about Ignorance: A Note on the Bush-Gorbachev Problem, *Fundamenta Informaticae Journal*, special issue on Logic for A.I.,15(3,4):325-332, December 1991 (invited paper).
15. C. Baral, S. Kraus, J. Minker and V.S. Subrahmanian. Combining Knowledge Bases Consisting of First Order Theories. *Computational Intelligence* 8(1):45-71, March 1992.

16. S. Kraus and J. Wilkenfeld. A Strategic Negotiations Model with Applications to an International Crisis. *IEEE Transactions on Systems, Man, and Cybernetics*, 23(1):313-323 1993.
17. C. Baral, S. Kraus, J. Minker and V.S. Subrahmanian. Combining Default Theories, *International Journal on Intelligent Cooperative Information Systems (IJICIS)*, 3(3):319-348, 1994.
18. S. Kraus and D. Lehmann. Designing and Building a Negotiating Automated Agent, *Computational Intelligence*, 11(1):132-171, 1995.
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21. J. Wilkenfeld, S. Kraus, K. Holley and M. Harris. GENIE: A Decision Support System for Crisis Negotiations, *International Journal on Decision Support Systems*, 14:369-391, 1995.
22. M. Nirkhe and S. Kraus. Formal Real-time Imagination, *Fundamenta Informaticae*, special issue on Context: theory and practice, 23(2,3,4):371-390, 1995.
23. S. Kraus, J. Wilkenfeld and G. Zlotkin. Multiagent Negotiation Under Time Constraints, *Artificial Intelligence journal*, 75(2):297-345, 1995.
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28. S. Kraus. Beliefs, Time and Incomplete Information in Multiple Encounter Negotiations Among Autonomous Agents. *Annals of Mathematics and Artificial Intelligence*, 20(1-4):111-159, 1997.
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30. J. Wilkenfeld, S. Kraus and K. M. Holley. The Negotiation Training Model, *Simulation and Gaming*, 29(1):31-51, March 1998.
31. T. Plotkin, B. Plotkin and S. Kraus. Problem of Equivalence, Categoricity of Axioms and States Description in Databases, *Studia Logica*, 61:347-366, 1998.
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62. E. David, R. Azoulay-Schwartz and S. Kraus. Bidding in Sealed-bid and English Multi-Attribute auctions. *Decision Support Systems*, 42(2):527-556 , November 2006.
63. J. Dix, S. Kraus and V.S. Subrahmanian. Heterogeneous Temporal Probabilistic Agents, *ACM Transactions on Computational Logic* 7(1): 151-198, 2006.
64. S. Kraus, P. Hoz-Weiss and J. Wilkenfeld, D. R. Andersen and A. Pate. Resolving crises through automated bilateral negotiations. *Artificial Intelligence journal*, 172(1):1-18, 2008.
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66. R. Katz, Y. Amichai-Hamburger, E. Manisterski and S. Kraus. Different Orientations of Males and Females in Computer-Mediated Negotiation. *Computers in human behavior journal*, 24(2):516-534, 2008.
67. A. Rosenfeld, G. Kaminka, S. Kraus and O. Shehory. A Study of Mechanisms for Improving Robotic Group Performance, *Artificial Intelligence journal*, 172(6-7):633-655, 2008.
68. D. Sarne and S. Kraus. Managing Parallel Inquiries in Agents' Two-Sided Search *Artificial Intelligence journal*, 172(4-5):541-569, 2008.
69. S. Kraus, R. Parshani and Y. Shavitt. A Study on Gossiping in Transportation Networks, *IEEE Transactions on Vehicular Technology* 57(4):2602-2607, 2008.
70. R. Lin, S. Kraus, J. Wilkenfeld and J. Barry. Negotiating with Bounded Rational Agents in Environments with Incomplete Information Using an Automated Agent, *Artificial Intelligence journal*, 172(6-7):823-851, 2008.
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74. A. Rosenfeld, S. Kraus and C. L. Ortiz, Jr. Measuring the Expected Gain of Communicating Constraint Information. *Multiagent and Grid Systems – An International Journal*, 5(4):427-449, December 2009
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77. P. Paruchuri, J. P. Pearce, J. Marecki, M. Tambe, F. Ordonez and S. Kraus. Coordinating Randomized Policies for Increasing Security of Agent Systems, *Information Technology and Management*, 10(1) pp 67-79, 2009.
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