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, machine-learning, social networks, agent optimization, autonomous vehicles, homeland security, adversarial patrolling and nonmonotonic reasoning.

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:

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

2023- present: Dean of the Faculty of Exact Sciences.

2016- 2018: Chair, Department of Computer Science, Bar-Ilan University.

2001 - 2017: Adjunct Professor, Institute for Advanced Computer Studies, University of Maryland (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.

Recent Summer visits:

Oxford University: 2018, 2022, UVA: 2019, NTU: 2023, 2024

Major Awards and Honors :

IJCAI Research Excellence Award, 2023.

Citation:

For her pioneering work of the study of interactions among self-interested agents, creating the field of automated negotiation, and developing methods for coalition formation and teamwork, both as formal models and real-world implementations.

About the award:

The Research Excellence Award is given to a scientist who has carried out a program of research of consistently high quality throughout an entire career yielding several substantial results.

The Israel Academy of Sciences and Humanities, member, 2021

ACM Athena Lecturer Award, 2020-2021.

Citation:

For foundational contributions to artificial intelligence, notably to multi-agent systems, human-agent interaction, autonomous agents and non-monotonic reasoning, and exemplary service and leadership in these fields.

About the award:

This award celebrates women researchers who have made fundamental contributions to Computer Science. Each year ACM honors a preeminent woman computer scientist as the Athena Lecturer. The recipient gives an invited talk at a major ACM conference of her choice.

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 a European, non-governmental association acting as an Academy. Its members, who 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, it has over 2000 members, which include 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 :

- IBM faculty award, 2020.

- Honorary degree of HIT, 2019.

- The Vision and Achievement Award, 2019.
- 2018 winner of Israeli Hi-tech leadership.
- Selected as one of the 21 women that changes the Israeli Hi-tech, 2018.
- 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. AAAI-20 Blue Sky track. S. Kraus, A. Azaria, J. Fiosina, M. Greve, N. Hazon, L. Kolbe, T. Lembcke, J. P. Müller, S. Schleibaum, M. Vollrath. AI for Explaining Decisions in Multi-Agent Environments.

2. Adaptive Learning Agents (ALA 2017) workshop. A. Rosenfeld, M. E.Taylor and S. Kraus. Speeding up Tabular Reinforcement Learning Using State-Action Similarities.

3. AAAI-15 Blue Sky track. S. Kraus. Intelligent Agents for Rehabilitation and Care of Disabled and Chronic Patients.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. International workshop on Cooperative Information Agents, 2002 (CIA02). R. Azoulay-Schwartz and S. Kraus. Acquiring an Optimal Amount of Information for Choosing from Alternatives.

12. 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 NIS.

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 excellence, Communication Networks: Topology, Dynamics and Applications, 2003-2010, 1,375,000 NIS.

Data Collection and Integration in Very Large-scale Networks, MAFAT, 2003-2005, 310,000 NIS.

Dynamic distributed tuning in 4G networks using cooperative negotiations, MAGNET: REMON, 2004-2007, 685,000 NIS.

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, 320,000 NIS.

A Spectrum of Social Models in Theory and Robots, Israel Science Foundation (ISF) 2007-2010, (secondary PI).

Israeli Minster 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, 2010-2017, $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 Minstery of Trade, MAGNETON, 2011-2013, $218,000.

Providing People with Arguments and Contextual Information during Argumentative Discussion, Intel Collaboration 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 1,181,250 Euro).

Resilient human-in-the-loop multiagent optimization, JAPAN-ISRAEL SCIENTIFIC RESEARCH COOPERATION, 800,000 NIS, 2017-2020.

The development of algorithms for the identification of online frauds using transfer learning, Magneton, 1,266,300 NIS, 2016-2018.

Robots Learning from Observing Humans, Nofar, NIS550,000, 2018-2019.

Misinformation detection in healthcare domain, Slovak-Israeli Scientific Research Program, 200000$, 2018-2020.

Destabilizing Terrorist Networks, Maafat, NIS200000.

Agents supporting large-scale environments of teams of people and computer systems, JP Morgan, $150,000, 2019-2020.

EC-Rider, Wolsvagen Foundation, 25,430 Euros, 2019.

Detecting Medical Misinformation on Social Media, Facebook Instagram for Well-being and Safety Research, $50,000, 2019.

Inferring Medical Treatment Effectiveness, Israeli Innovation Authority, NIS876000, 2020-2022.

Defense Coordination in Security Games, ISF, NIS920,000, 2020-2024.

Intelligent Agents Supporting Humans Tele-operating a Large Fleet of Autonomous Vehicles, , Israeli Innovation Authority, NIS 1,771,200, 2020-2023.

Powers Intending to Negotiate Alliances and Communicate to Leverage Ententes (PINNACLE) DARPA SHADE Program, $200,000, 2022-2023.

TAILOR, Horizon 2020, 150,000 Euros, 2020-2023.

Development and Implementation AI-Based Blood Tests Recommendation System, MOST, 2023-2026.

Defending a city from a drone swarm attack: A Sequential Stackelberg Security Games approach, ISF, 2024-2028, NIS660,000.

Personalized and Adaptive XAI, MOST 2024-2027.

IISAC, Intelligent Integrated Sensing and Communication, Magnet, Israeli Innovation Authority, NIS225,000, 2025-2026.

Assisting agent for a team of drones and an operator, Israeli Innovation Authority, KAMIN, NIS 941,540.00 2025-2027.

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.

26. Ariel Rosenfeld, Automated agents for advice provision - enhancing human capabilities and performance, 2017.

27. Mor Sinay, Efficient Strategies for Spatio-Temporal Tasks, (with Noa Agmon) 2020.

28. Hanan Rosemarin, Optimizing Agent–Human Interaction (with Ariel Rosenfeld), 2020.

29. Elad Sarafian, Lifelong Learning: A Deep Reinforcement Learning Approach, 2022.

30. Sharadhi Alape Suryanarayana. Managing, Mining and Modeling Human Behavior in Online Environments, 2022.

31. Anat Hashavit, Detecting and Debunking Malicious Activity in Online Networks, 2023.

32. Erez Hartuv, Multi-agent Scheduling Optimization in Dynamic Environments under Energy Constraints, 2024.

33. Yohai Trabelsi, Intelligent Agents for Giving Advice in Complex Environments, 2025.

Master Students :

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

35. Maier Fenster, Coordination between Autonomous Agents without Communication: Using Focal-Point Techniques, November 1994.

36. Amir Evenchik, Inference System for Argumentation in Negotiations between Automatic Agents, October 1995.

37. Galit Lemel, A Strategic Model for Negotiation among Autonomous Agents, December 1995.

38. Orna Schechter, Sharing Resources through Negotiation in Multi-Agent Environments, November 1996.

39. Ayelet Globerman, A modal active-logic with focus of attention for reasoning in time, January 1997.

40. Sigalit Sina, Tasks execution in an unknown environment (joint with Shlomo Engelson), May 1997.

41. Rina Schwartz, Negotiation Between Agents about File Allocation in Distributed Environment, June 1997.

42. Michal El-Ran, Models and Algorithms for Secure Knowledge Bases, June 1997.

43. Meirav Hadad, Cooperation Among Agents, June 1997.

44. Ariel Stollman, Negotiation Methods for Automatic Agents, June 1997.

45. Beatriz Krymolowski, A Distributed Information System for Parking Allocation (joint with Orly Kremien), September 1997.

46. Orna Aroch, Distributed Problem Solving in Multi-Agent Environment, November 1997.

47. Esther David, Cooperative Information Agents, March 1998.

48. Osher Yadgar, A physics-oriented approach for distribution of delivery tasks in large scale automated-agent systems, September 1998.

49. Revital Darshan-Vaknin, Environment Mapping by a Robot while Executing Tasks (joint with Shlomo Engelson), February 1999.

50. Haim Fayerstein, Strategies and methods of learning to improve performance in auctions, August 2000.

51. Aspir Freitsis, Negotiations in the pollution sharing problem, August 2000.

52. Penina Hoz-Weiss, Automated Negotiator for Fishing Dispute, August 2001.

53. Lea Tsaban, Automated intelligent content selection tools for electronic newspapers, December 2001.

54. Roni Stern, Real time Optimal path searches, (joint with Ariel Felner), January 2002.

55. Michal Halamish, Learning Users Interests for Providing Relevant Information, March 2002.

56. Raz Lin, Attaining Fast and Successful Search in E-Commerce Environments, June 2002.

57. Alex Pomeransky, The Manpower Collector Problem. (joint with Ariel Felner), October 2002.

58. Shimon Pomeransky, Finding Alternatives to Best Path (joint with Ariel Felner), October 2002.

59. Evyatar Sharabi, Distributed algorithms for large-scale agent systems, November 2002.

60. Gilad Taase, Coalition Formation in the RFP domain with incomplete information (joint with Onn Shehory), January 2004.

61. Ram Meshulam, Improving Memory-Based-Heuristics (joint with Ariel Felner), March 2004.

62. Yaron Shoshani, Multi-agent Physical A* using Large Pheromones (joint with Ariel Felner), March 2004.

63. Daphna Shifer, The Value of Information in Negotiation (joint with Rina Azoulay-Schwartz), May 2004.

64. Ariela Richardson, Heuristic routing in comunication networks (joint with Yuval Shavitt), June 2004.

65. Shavit Talman, Multi-personality agents in multi-agent environment, October 2004.

66. Roni Parshani, Using Learning to optimize agent movement in Dynamic Gossip Networks, October 2004.

67. Rotem Toister, Automated Mediation for Bilateral Negotiation in a Crisis Simulation, January 2005.

68. Moty Havlin, The influence of Social Dependencies on Decision-Making in Environments with Full Visibility, March 2005.

69. Aner Yarden, Reliable and Efficient Distribute Algorithms for Verification in Very Large Scale Systems, March 2005.

70. Saar Rosenberg, Improved Cooperative Negotiation in a Multi-Agent System for Real-Time Load Balancing of Mobile Cellular Network, January 2007.

71. Tammar Machnes, Utility Based Clustering, October 2007.

72. Ortal Bitton, Automated negotiators using generic learning model in multi-agents environments, December 2007.

73. Gilad Armon (with Gal Kaminka), Supporting Collaborative Activity, January 2008.

74. Victor Shafran (with Gal Kaminka), Multilateral Matchmaking and Hybrid Coverage in Multi Agent Systems, December 2008.

75. Igor Vainer, Obtaining Scalable and Accurate Classification in Large Scale Spatiotemporal Domains, November 2009 (with Gal Kaminka).

76. Yinon Oshrat, Using General Opponent Modeling to Improve Negotiation Outcomes (with Jeff Rosenschein), November 2009.

77. Shai Shlomai, In-Network Aggregation Along Routing For Detection and Tracking in Wireless Sensors Networks, November 2011.

78. Ron Eyal, Identifying Missing Node Information in Social Networks, October 2012.

79. Moshe Bitan, Modelling Human Strategic Decisions using Facial Expressions and History, November 2013.

80. Asaf Frieder, Effective Coordination in Mixed Agent-Human Teams, March 2014.

81. Efrat Sless, Multi-Robot Adversarial Patrolling: Detecting and Responding to Coordinated Attacks (with Noa Agmon), 2015.

82. Liat Sless, Forming Coalitions and Facilitating Relationships for Completing Tasks in Social Networks (with Noam Hazon), 2015.

83. Akiva Kleinerman, The Effect of Transparency in Reciprocal Recommender Systems, 2018 (with Ariel Rosenfeld).

84. Moshe Cohen, Extended study on human aspects in speeding up reinforcement learnin, 2018 (with Ariel Rosenfeld).

85. Tal Shmueli, Search Pathology in Multi-Player Game Trees, 2019 (with Inon Zuckerman).

86. Albert Harounian, Learning algorithms for understanding people's intentions in autonomous cars, 2019 (with Ariel Rosenfeld).

87. Idan Achituv, Interpretable Online Banking Fraud Detection based on Hierarchical Attention Mechanism, 2019 (with Jacob Goldberger).

88. Steven Lapp. Online Recommendation Policy for Optimizing Medical Image Reading, 2019 (with Ariel Rosenfeld).

89. Karin Sheri, Destabilizing Networks By Removing Vertices Which are Essential to Network Functioning, 2020.

90. Naftali Waxman, Preserving Friendships in K-Coalition, 2020 (with Noam Hazon).

91. Dolev Mutzari, Understanding Coalition Formation in Secure Stackelberg Games, 2021.

92. Aviram Aviv, Domain independent advice provision for call center representatives, 2021.

93. Shai Keynan, Applications Of Hyper Networks in RL, 2021.

94. Alon Stern, Negotiation Strategy for Tuning Between Individual Utility and Social Welfare in Multilateral Negotiation (with David Sarne), 2021.

95. Guy Barash, Learner-Independent Targeted Data Omission Attacks (with Onn Shehory), 2021.

96. Benjamin Wexler, Integrating Expert Knowledge into Reinforcement Learning for Robotics, 2022.

97. Osnat Akerman. Allocation Problem in Remote Teleoperation: Online Matching with Offline Reusable Resources and Delayed Assignments, 2022.

98. Tamar Stern, Stance detection for abstracts from PubMed Website, 2023.

99. Gideon Freund, Applications of Modeling State Distributions in Reinforcement and Imitation Learning, 2023.

100. Jonathan Shaki, Bayesian Persuasion for Stable Matching Games, 2024.

101. Maayan Orner, Multi-Agent Negotiation in complex environments, 2024.

102. Yedidya Kefir, Hybrid Algorithms for Solving Black Box Optimization Problems, 2025.

103. Ariel Vetlzer, Private Clustering Explanations in Multi-Agent Systems, 2025.

Current Students:

PhD Students :

1. Hodaya Bar, AI techniques supporting human decision-making in teams.

2. Dolev Mutzari, Models and Algorithmic Approaches for Multi-Agent Security

3. Jonathan Shaki, Cognitive and Game Theoretic Foundation for LLMs.

4. Amit Ronen

Master Students:

5. Ruti Cohen, Personalized Explanation Selection in Explainable Artificial Intelligence (XAI).

6. Ido Aharon, Explainability to Instructions: Rules as Self-Improvement for LLMs.

7. Benaya Trabelsi, Pro-AI Bias in Large Language Models.

8. Nitay Shafrir

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. Chanhyun 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.

16. Tanvi Verma, Scalable Reinforcement Learning in Anonymous Multi-Agent Settings, School of Information Systems, Singapore Management University, 2018.

17. Dung Nguyen, University of Virginia, 2025.

18. Kayla Explanations for Multi-Agent Reinforcement Learning, 2025.

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. Game theory model for patroliing 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 AAAI 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, Taipe, 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, Taipe.

- 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, Singapoure 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.

- Invited speaker Israel Machine Vision Conference (IMVC), 2017.

- Invited speaker Multiyeda 2017.

- Strachey lecture, Oxford, 2017.

- Huawei Reliability Technology & Engineering Conference in Shenzhen China, 2018.

- Keynote speaker, Human-Agent-Interaction, Southapton, UK, 2018.

- Keynote speaker, Jerusalem PPE Convention, 2018.

- Invited speaker, 2019 AAAS Annual Meeting in Washington.

- Invited tutorial speaker, CoRL 2019 in Japan.

- Keynote speaker, Israeli Association for Medical Informatics, Tel-Aviv, 2021.
- Invited lecturer, Google Research India AI Summer School, 2020.
- Keynote speaker, ACM womENcourage 2020 conference.
- Keynote speaker, Logical Normativity and Logical Reasoning in AI Systems workshop, 2020.
- Invited speaker, NeurIPS workshop: Cooperative AI, 2020.
- Keynote speaker, 13th Asian Conference on Machine Learning, 2021.
- Keynote speaker: Education Artificial Intelligence (EduIA), 2021.
- Keynote speaker, NeurIPS Workshop on Human and Machine Decisions, 2021.
- Invited Speaker, ICLR workshop, Gamification and Multiagent Solutions, 2022.
- Keynote speaker at the 2022 IEEE Conference on Games, 2022.
- Invited lecturer Israeli Reinforcement Learning workshop, 2022.
- Keynote speaker at Israel-China AI forum at the 2022 BAAI Conference.
- Keynote speaker at the ICAPS Workshop on Planning for Financial Services (FinPlan 2022).
- Keynote speaker PFIA'23, 2023.
- Invited speaker, COMSOC, 2023.
- Keynote speaker, IJCAI 2023.
- Keynote speaker, AAAI 2024.
- Invited speaker, The Israeli Systems & AI Workshop 2025.
- Invited speaker, Bonn Humboldt Award Winners' Forum, 2025.

Board of Directors: Board of directors of the International Foundation for Multi-agent Systems (IFAAMAS), 2000-2012 and 2014-2020.

Editor: Associate editor of *Annals of Mathematics and Artificial Intelligence*, 2002- 2020. Associate editor of the Journal of Artificial Intelligence Research, 2015- present; Associate editor of *Artificial Intelligence*, 2004-2008.

Editorial Board :

- Guest Editor of 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, 2018-2024.

- 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.

- Advisory board, AI Magazine, 2021 – present.

Organization of Conferences (selected):

- 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.

- **Program Chair of IJCAI 2019.**

- Conference chair, DAI 2024.

- **Conference chair, IJCAI 2027.**

National Services (selected):

- GIF governor, 2024—

- Adams Fellowships Committee, 2025---

- Blavatnik Awards for Young Scientists, 2022 ---

- The public committee for formulating recommendations for accelerating the field of artificial intelligence from a national perspective, 2025.

- National committee to examine the need for government intervention to accelerate the development of the field of Artificial Intelligence and Data Science, 2020-2021.

- 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 Theorectic 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, Portalnd, 2015.

IJCAI, Argentina, 2015.

Coordination, France, 2015,

AAMAS, Singapore, 2016.

IJCAI, NY, 2016.

IJCAI, Sweden, 2018.

AAAI, USA, 2019.

IJCAI, Canada, 2021.

AAAI (virtual) 2021.

AAAI, (virtual), 2022.

IJCAI, Austria, 2022.

KDD, (virtual), 2022.

AAAI, USA, 2023,

IJCAI, Macao, 2023.

AAAI, Canada, 2024.

IJCAI, Canada, 2025.

ECAI, Italy, 2025.

AAAI, Singapore, 2026.

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.

6. A. Rosenfeld and S. Kraus. Predicting Human Decision-Making: From Prediction to Action , Morgan & Claypool Publishers, January, 2018.

7. S. Kraus (editor). Proceedings of the International Joint Conferences on Artifical Intelligence (IJCAI), August, 2019, Macao.

Journal Articles:

8. S. Kraus and D. Lehmann. Knowledge, Belief and Time, *Theoretical Computer Science*, 58:155-174, 1988.

9. S. Kraus, D. Lehmann and M. Magidor. Nonmonotonic Reasoning, Preferential Models and Cumulative Logics, Artificial Intelligence Journal, 44:167–207, 1990.

10. 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, Greenwhich, Connecticut, 1992.)

11. C. Baral, S. Kraus and J. Minker. Combining Multiple Knowledge Bases, IEEE Transactions on Knowledge and Data Engineering 3(2): 208-220, June 1991.

12. 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.

13. 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.

14. E. Etherington, S. Kraus and D. Perlis. Nonmonotonicity and the Scope of Reasoning, Artificial Intelligence Journal, 52(3): 221-262, December 1991.

15. 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).

16. S. Kraus, J. Wilkenfeld, M. Harris and E. Blake. The Hostage Crisis Simulation, Simulation and Gaming, 23(4):398-416, December 1992.

17. 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.

18. 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.

19. 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.

20. S. Kraus and D. Lehmann. Designing and Building a Negotiating Automated Agent, Computational Intelligence, 11(1):132-171, 1995.

21. P. Bonatti, S. Kraus and V.S. Subrahmanian. Foundations of Secure Deductive Databases, IEEE Transactions on Knowledge and Data Engineering, 7(3):406-422, 1995.

22. S. Kraus and V.S. Subrahmanian. Multiagent Reasoning with Probability, Time and Beliefs, International Journal of Intelligent Systems, 10(5):459–499, 1995.

23. 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.

24. 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.

25. S. Kraus, J. Wilkenfeld and G. Zlotkin. Multiagent Negotiation Under Time Constraints, Artificial Intelligence Journal, 75(2):297–345, 1995.

26. S. Kraus. An Overview of Incentive Contracting. Artificial Intelligence journal, 83(2):297-346, 1996.

27. B. Grosz and S. Kraus. Collaborative Plans for Complex Group Action. Artificial Intelligence Journal, 86(2):269-357, 1996.

28. T. Plotkin, B. Plotkin and S. Kraus. Algebraic Logic in Database State Description, Fundamental and Applied Mathematics, 3:875–910, 1996.

29. M. Nirkhe, S. Kraus, D. Perlis and M. Miller. How to (plan to) meet a deadline between Now and Then. Journal of Logic and Computation, 7(1):109-156, January 1997.

30. 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.

31. S. Kraus. Negotiation and Cooperation in Multi-Agent Environments, Artificial Intelligence Journal, Special Issue on Economic Principles of Multi-Agent Systems. 94(1-2):79-98, 1997.

32. J. Wilkenfeld, S. Kraus and K. M. Holley. The Negotiation Training Model, Simulation and Gaming, 29(1):31-51, March 1998.

33. T. Plotkin, B. Plotkin and S. Kraus. Problem of Equivalence, Categoricity of Axioms and States Description in Databases, Studia Logica, 61:347-366, 1998.

34. S. Argamon-Engelson, S. Kraus and S. Sina. Utility-Based On-Line Exploration for Repeated Navigation in an Embedded Graph, Artificial Intelligence Journal, 101(1-2):267-284, May 1998.

35. T. E. Santmire, J. Wilkenfeld, S. Kraus, K. M. Holley, T. E. Santmire and K. S. Gleditsch. The Impact of Cognitive Diversity on Crisis Negotiations, Political Psychology, 19(4):721-748, 1998.

36. O. Shehory and S. Kraus. Methods for Task Allocation via Agent Coalition Formation. Artificial Intelligence Journal, 101(1-2):165-200, 1998.

37. S. Kraus, K. Sycara and A. Evenchik. Reaching agreements through argumentation: a logical model and implementation, Artificial Intelligence Journal, 104(1-2):1-69, 1998.

38. M. Morreau and S. Kraus. Syntactical Treatments of Propositional Attitudes, Artificial Intelligence Journal, 106: 161-177, 1998.

39. O. Shehory and S. Kraus. Feasible Formation of Stable Coalitions among Autonomous Agents in Non-super-additive Environments, Computational Intelligence, 15(3):218–251, 1999.

40. O. Shehory, S. Kraus and O. Yadgar. Emergent cooperative goal-satisfaction in large scale automated-agent systems, Artificial Intelligence Journal, 110(1):1-55, 1999.

41. K. Arisha, S. Kraus, F. Ozcan, R. Ross and V.S. Subrahmanian. IMPACT: Interactive Maryland Platform for Agents Collaborating Together, IEEE Intelligent Systems, 14(2):64–72, 1999.

42. B. J. Grosz, L. Hunsberger and S. Kraus. Planning and Acting Together, AI Magazine, 20(4):23-34, 1999.

43. S. Argamon-Engelson, S. Kraus and S. Sina. Interleaved vs. Exploration for Repeated Navigation in a Partially-Known Graph, International Journal of Pattern Recognition and Artificial Intelligence Journal, 13(7):963-986, 1999.

44. E. De-Medonsa, S. Kraus and Y. Shiftan. A Self Processing Network Model for Relational Databases, IEEE Transactions on Systems, Man and Cybernetics, 29(4):198-225, April 1999.

45. S. Kraus and T. Plotkin. Algorithms of distributed task allocation for cooperative agents. Theoretical Computer Science, 242(1-2):1-27, June 2000.

46. R. Azoulay-Schwartz and S. Kraus. Negotiation On Data Allocation in Multi-Agent Environments, Autonomous Agents and Multi-Agent Systems Journal, 5(2):123-172, 2002.

47. S. Kraus, J. S. Rosenschein and M. Fenster. Exploiting Focal Points Among Alternative Solutions: Two Approaches, Annals of Mathematics and Artificial Intelligence, 28(1-4):187-258, 2000.

48. J. Grant, S. Kraus and D. Perlis. A logic for characterizing multiple bounded agents. Autonomous Agents and Multi-Agent Systems Journal, 3(4):351-387, 2000.

49. R. Ben-Yashar, S. Khuller and S. Kraus. Optimal Collective Dichotomous Choice Under Partial Order Constraints, Mathematical Social Sciences, 41:349–364, 2001.

50. J. Dix, S. Kraus and V.S. Subrahmanian. Temporal Agent Programs, Artificial Intelligence Journal, 127(1):87-135, 2001.

51. R. Ben-Yashar and S. Kraus. Optimal Collective Dichotomous Choice Under Quota Constraints, Economic Theory, 19(2):839-852, 2002.

52. B. J. Grosz, S. Kraus, D. G. Sullivan and S. Das. The influence of social norms and social consciousness on intention reconciliation. Artificial Intelligence Journal, 142(2):147-177, 2002.

53. A. Felner, R. Korf and S. Kraus. KBFS: K-Best First Search, Annals of Mathematics and Artificial Intelligence Journal, 39:19-39, September 2003.

54. S. Kraus and O. Schechter. Strategic-negotiation for Sharing a Resource between Two Agents, Computational Intelligence, 19(1):9-41, 2003. P. Bonatti, S. Kraus and V.S. Subrahmanian. Secure Agents, Annals of Mathematics and Artificial Intelligence Journal, 37(1-2):169-235, 2003.

55. M. Hadad, S. Kraus, Y. Gal and R. Lin. Time Reasoning for a Collaborative Planning Agent in a Dynamic Environment Annals of Mathematics and Artificial Intelligence, 37(4):331-380, 2003.

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

57. C. Goldman and S. Kraus. The Value of Temptation, Electronic Commerce Research (4): 415-454, 2004.

58. C. Goldman, S. Kraus and O. Shehory. On experimental equilibria strategies for selecting sellers and satisfying buyers. International Journal on Decision Support Systems and Electronic Commerce 38(3):329-346, 2004.

59. R. Azoulay-Schwartz and S. Kraus. Stable Strategies for Collaborative Behavior of Agents in Answering Queries. Artificial Intelligence Journal 154(1-2):43-93, 2004.

60. R. Lin, S. Kraus and J. Tew. OSGS - A Personalized Online Store for E-commerce Environments. Information Retrieval Journal, Vol. 7, Issues 3-4, pp. 369-394, 2004.

61. A. Felner, R. Stern, A. Ben-Yair, S. Kraus and N. Netanyahu. PHA*: Finding the Shortest Path with A* in an Unknown Physical Environment. Journal of Artificial Intelligence Research (JAIR) 21:631-670, 2004.

62. J. Grant, S. Kraus and D. Perlis. A Logic-Based Model of Intention Formation and Action for Multi-Agent Subcontracting. Artificial Intelligence Journal, 163(2):163-201, 2005.

63. 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.

64. J. Dix, S. Kraus and V.S. Subrahmanian. Heterogeneous Temporal Probabilistic Agents, ACM Transactions on Computational Logic, 7(1): 151-198, 2006.

65. E. David, A. Rogers, N. R. Jennings, J. Schiff, S. Kraus and M. H. Rothkopf. Optimal design of English auctions with discrete bid levels, ACM Trans on Internet Technology, 7(2), 2007.

66. S. Kraus, P. Hoz-Weiss, J. Wilkenfeld, D. R. Andersen and A. Pate. Resolving crises through automated bilateral negotiations. Artificial Intelligence Journal, 172(1):1-18, 2008.

67. 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.

68. 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.

69. D. Sarne and S. Kraus. Managing Parallel Inquiries in Agents' Two-Sided Search. Artificial Intelligence Journal, 172(4-5):541-569, 2008.

70. S. Kraus, R. Parshani and Y. Shavitt. A Study on Gossiping in Transportation Networks. IEEE Transactions on Vehicular Technology, 57(4):2602-2607, 2008.

71. 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.

72. E. Manisterski, D. Sarne and S. Kraus. Enhancing Cooperative Search with Concurrent Interactions. JAIR Volume 32, pages 1-36, 2008.

73. S. Kraus, R. Lin and Y. Shavitt. On Self-Interested Agents in Vehicular Networks with Car-to-Car Gossiping. IEEE Transactions on Vehicular Technology, 57(6):3319 - 3332, 2008.

74. A. Rosenfeld, C. V. Goldman, G. A. Kaminka and S. Kraus. PHIRST: A Distributed Architecture for P2P Database Information Retrieval. Information Systems, 34:290-303, 2009.

75. 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.

76. Y. Zhang, E. Manisterski, S. Kraus, V.S. Subrahmanian and D. Peleg. Computing the Fault Tolerant Capability of Multiagent Deployment. Artificial Intelligence Journal, 173(3-4):437-465, 2009.

77. J. Pita, M. Jain, F. Ordonez, C. Portway, M. Tambe, C. Western, P. Paruchuri and S. Kraus. Using Game Theory for Los Angeles Airport Security James. AI Magazine 30(1):43-57, 2009.

78. 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.

79. D. Sarne, E. Manisterski and S. Kraus. Multi-Goal Economic Search using Dynamic Search Structures. Autonomous Agents and Multi-Agent Systems Journal, 21(2):204-236, 2010.

80. R. Lin and S. Kraus. Can Automated Agents Proficiently Negotiate With Humans? Communications of the ACM, Vol. 53 No. 1, Pages 78-88, January 2010.

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