

Gal A. Kaminka

Full Curriculum Vitae

Computer Science Department
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Research Interests

I am interested in the computational mechanisms that underly intelligent social behavior, whether artificial or natural. Such mechanisms include the ability to understand what others are doing and intend to do, and to generate appropriate cooperative, coordinated behavior. My research emphasizes both theory and experiments with robots to synthesize social intelligence in the lab, and in real-world applications.

Education

Ph.D., Computer Science	University of Southern California	1995–2000
Thesis: <i>Execution Monitoring in Multi-Agent Environments</i>		
Advisor: Professor Milind Tambe.		
Committee members: Profs. George Bekey, Victor Lesser, Daniel O’Leary, Jeff Rickel		
B.A. (Cum Laude), Computer Science	Open University of Israel	1991–1994

Professional Experience

Professor	Bar Ilan University	2012–present
I head the MAVERICK group at the Computer Science Department, I lead the Bar Ilan University Robotics Consortium, and I am also affiliated with the Gonda Brain Research Center.		
Co-Founder (2016) & CTO (2017)	BladeRanger	2016–present
Advisory board member	Intuition Robotics	2015–present
Advisory board member	Reporty Homeland Security	2014–present
Radcliffe Fellow	Harvard University	2011–2012
On sabbatical at the Radcliffe Institute for Advanced Study, Harvard.		
Associate Professor	Bar Ilan University	2008–2012
Senior Lecturer	Bar Ilan University	2002–2008
Adjunct Assistant Professor	Carnegie Mellon University	2002–2005
Post Doctorate Fellow	Carnegie Mellon University	2000–2002
Under guidance of Prof. Manuela Veloso. Investigated learning models of multi-agent behavior from observations, plan recognition, and multi-robot systems architectures. Participated in RoboCup 2001.		
PhD. Candidate & Research Assistant	University of Southern California	1995–2000
Developed systems and theory for monitoring multiple agents in centralized and distributed settings, online and offline. Participated in AAAI and RoboCup competitions 1996–1998.		
Programmer	Tovna Machine Translation Systems, Ltd.	1993–1995
Military Service	Israel Defense Forces	1990–1993
Non-Commissioned Officer, rank: Sergeant First-Class		
Assistant System Administrator	Brandeis University Computer Science Department	1989.
Programmer	Shaham Computerized Educational Services	1986–1987
Converted the SEMEL tutoring system from Commodore computers to Apple II computers.		

Honors <i>Sciences Prizes & Distinctions</i>	EurAI Fellow 2017
	The European Organization for Artificial Intelligence (EurAI) <i>Fellows</i> programme recognises European AI researchers who have made exceptional contributions to the field. The EurAI Fellows Program honors only a very small percentage of the total membership of all member societies (up to a maximum of 3%).
	Landau Prize in Research and Science 2013
	This is a prestigious national prize, awarded annually to 5 scientists, for internationally-recognized contributions and excellence. Award category: Exact Sciences—Robotics.
	Radcliffe Fellow 2012
	Radcliffe Institute for Advanced Study, Harvard University.
<i>Best Paper Distinctions (1st-tier conferences)</i>	IBM Faculty Award 2004
	For research excellence in the area of model-based diagnosis of multi-agent systems.
	First Place, International RoboCup Coach League 2001
	Third place, International RoboCup soccer simulation league 1997
	Second place, AAAI-1996 International Robot Competition 1996
	Best Challenge Paper Award, AAMAS Conference 2013
The challenge paper titled “Curing Robot Autism: A Challenge” was awarded the best challenge paper award, in the AAMAS “Challenges and Visions” special track. Invited for presentation as part of the AAAI conference “Other Conference Highlights” session for award-winning papers.	
<i>Best Paper Distinctions (2nd-tier conferences)</i>	Best of ICCM-2009 2009
	Co-authored by Natalie Fridman, our paper in the International Conference on Cognitive Modeling (ICCM) was invited for publication in the <i>best of ICCM 2009</i> special issue of the journal Cognitive Systems Research.
	Best of ICMAS-2000 2000
	Co-authored by Milind Tambe, David V. Pynadath, Nicholas Chauvat, and Abhimanyu Das, our paper in the International Conference on Multi-Agent Systems (ICMAS) was invited for publication in the <i>best of ICMAS 2000</i> special issue of the journal Autonomous Agents and Multi-Agent Systems.
	Best of Agents-1999 1999
	Co-authored by Stacy C. Marsella, Jafar Adibi, Yaser Al-Onaizan, Ion Muslea, Marcello Tallis, and Milind Tambe, our paper titled “On being a teammate: Experiences acquired in the design of RoboCup teams” in the International Conference on Autonomous Agents was invited for publication in the <i>best of Agents 1999</i> special issue of the journal Autonomous Agents and Multi-Agent Systems.
<i>Service and Institutional Recognition</i>	Best Paper Award, IMMM Conference 2013
	Co-authored with Ariella Richardson and Sarit Kraus, our paper “REEF: Resolving Length Bias in Frequent Sequence Mining” won the best paper award at the third international conference on advances in information mining and management (IMMM 2013).
	Best Paper Award, Cooperative Information Agents (CIA) 2007
Co-authored with Avi Rosenfeld, Claudia V. Goldman, and Sarit Kraus, our paper in the CIA conference won the best paper award.	
Rector’s Innovative Science Award Bar Ilan University 2017	
With Dr. Noa Agmon, selected for our joint work on programming molecular robots.	
Nominated for Best Senior Program Committee Member, AAMAS Conference 2006, 2012	
For “reviews, discussions, and feedback that stood out as being particularly helpful, both to the authors, and to program chairs”.	

Meritorious Service Award University of Southern California 1997
Presented for outstanding contributions to the success of the USC's Information Sciences Institute (USC/ISI) robots in international competitions.

Funding Overall annual average: 12 PhD students fully funded, per year.

Basic Science **PI, Plan Recognition by Mirroring** Israel Science Foundation (ISF) 2016–2020
Investigating a novel approach to plan, activity, and intent recognition (PAIR), inspired by the primate mirroring neuron system.

PI, An exploration of plan recognition in cybersecurity BIU Cybersecurity Center 2016–present
Preliminary identification of the potential for plan recognition in cybersecurity applications.

PI, Game-Theory, Reinforcement Learning, and Emergent Behavior in Robots and Agents Israel Science Foundation (ISF) 2012–2016
Investigating the game-theoretic properties (including rationality) of multi-robot swarm behaviors.

PI, A Spectrum of Social Models in Theory and Robots Israel Science Foundation (ISF) 2007–2012
Secondary PI: Prof. Sarit Kraus (Bar Ilan University). Development of advanced logic theory and practical algorithms for controlling cooperative groups of autonomous robots, beyond teams.

Co-PI, "Mind reading" of the visual content from population responses in the visual cortex of behaving monkeys Center for Complexity Science 2007–2008
Co-PI: Dr. Hamutal Slovin (Bar Ilan University). Development and application of machine learning techniques for decoding neuron population responses in the visual cortex.

Co-PI, National Infrastructure Program in Robotics Ministry of Science and Technology 2005–2007
Co-PIs: Profs. Ehud Rivlin, Alfred Bruckstein (Technion); Sarit Kraus (Bar Ilan University); Eyal Shimony, Ariel Felner (Ben Gurion University). Development of canonical tasks and solutions for multi-robot systems, of multiple scales.

PI, Teamwork in Theory and Robots Israel Science Foundation (ISF) 2004–2007
Secondary PI: Prof. Sarit Kraus (Bar Ilan University). Development of logic theory and practical algorithms for controlling teams of autonomous robots.

Co-PI, Principled Design and Control of Robot Teams Binational Science Foundation (BSF) 2004–2007
Co-PIs: Prof. Manuela Veloso, Dr. Brett Browning (Carnegie Mellon University). Development of tools for design and deployment of coordinated robot teams.

Co-PI, GameBots USC/Information Sciences Institute 2000
Co-PI: Sheila Tejada (University of Southern California/Information Sciences Institute). High-risk/high-visibility funding for developing infrastructure for research using PC game environments. This was the only funded proposal by graduate students.

Applied **PI, ROBIL2: A robotics consortium** MAFAT 2013–present
Multi-organization consortium to build and evaluate generic robotics technologies in ROS. Our areas: decision-making and shared world modeling in multi-robot teamwork. Other partner organizations include Ben Gurion University, Technion, Cogniteam, IAI.

Co-PI, ROBIL: Israel's entry to the DARPA Robotics Challenge MAFAT, DARPA 2012
Lead PI: Prof. Hugo Guterman, Ben Gurion University (BGU). Multi-organization consortium to build a team to compete in the DARPA Robotics Challenge (in addition to Bar Ilan University: Ben Gurion University, Technion, Cogniteam, IAI). My areas: decision-making and complex behaviors.

PI, Improving Walking in Legged Robots MAFAT 2009, 2011
Using machine learning and other techniques to improve stability and speed of quadruple walking robots.

	PI, Groups of Autonomous Marine Surface Vehicles	MAFAT	2010–2012
	Support and advise a MAFAT-funded project at University of Texas, building autonomy control modules for marine surface vehicles.		
	PI, Modeling Crowd Behavior	MAFAT	2005–2012
	Using cognitive architectures and other AI tools to model crowd behavior.		
	PI, Diagnosis and Decision-Support for UAVs	MAFAT	2007–2010
	Development of a multivariate monitoring system for detecting and diagnosing failures.		
	PI, Cooperation in Robotic Ground Platform	MAFAT	2005–2009
	Algorithms and control systems for teams of physical robots in security tasks.		
	PI, Social Comparison in Crowds	U.S. Air Force Office of Scientific Research	2009,2011
	Investigation of social comparison mechanisms in crowds.		
	PI, RoboSweep	MAFAT	2004–2005
	Robotic teams for efficient and robust area coverage.		
	Co-PI, Recognizing Anomalous Behavior	Ministry of Commerce	2004–2007
	Co-PI: Prof. Sarit Kraus (Bar Ilan University). Development of algorithms for recognizing anomalous and suspicious behavior based on evidence from observations. MAGNET program.		
<i>Industry and Tech-Transfer</i>	PI, Crowd behavior in homeland security simulation	Ministry of Commerce	2015–2017
	Research and technology transfer of crowd behavior modeling algorithms, applied to homeland security and disaster response simulations, for training and decision-support. MEIMAD program. Commercial partner: El-Tel, Ltd.		
	Co-PI, AIDL	Boeing Research and Technology Europe	2014
	Enabling higher levels of autonomy. Main PI: Dr. Noa Agmon, Bar Ilan University.		
	PI, PointBots	MAFAT	2010–2013
	Multirobot semi-autonomous exploration and mapping. A technology transfer and accelerated research and development program. Commercial partner: Cogniteam, Ltd.		
	PI, Autonomous robot mapping	RAFAEL	2009
	Demonstration of autonomous mapping capabilities by robots.		
	PI, Multi-Robot Formations with a Single Operator	Ministry of Commerce	2007–2009
	MAGNETON program. Commercial partner: Elbit Systems, Ltd.		
	PI, Research in multi-agent systems	Samsung Telecommunications Research, Israel	2006–2007
	PI, Teamwork in Computer Generated Forces	Elbit Systems, Ltd.	2005–2006
	Using the Soar architecture to model CGF teams.		

Patents

	Robotic Cooperative Systems	Pending, 2016
	Gal A. Kaminka, Assaf Friedler, Ari Yakir, Dan Erusalimchik, Yehuda Elmaliach. International application #PCT/IL2016/051163. US provisional files 2015.	
	Location-Based Image Retrieval	Pending, 2014
	Shahar Kosti, Gal A. Kaminka, and David Sarne. International application #PCT/IL2014/050042. US Provisional filed 2013.	
	Anomaly Detection Methods, Devices and Systems	Granted , 2011
	Eliyahu Khalastchi, Gal A. Kaminka, Raz Lin, and Meir Kalech. US Patent 9,218,232.	
	Flexible Computer Vision	Granted , 2011
	Gal A. Kaminka and Eran Sadeh-Or. US Patent 8,965,130.	
	Voting by Peers with Limited Resources	Granted , 2007
	Meir Kalech, Sarit Karus, Gal A. Kaminka, and Claudia V. Goldman-Shenhar. US Patent 8,038,061.	

A Method and a System for Matching between Network Nodes **Granted**, 2007
Victor Shufrun, Gal A. Kaminka, Sarit Kraus, and Claudia V. Goldman-Shenhar. US Patent 7,808,909.

**Invited Talks
and Panels**
Professional

- Teams, Swarms, Crowds and Collectives: Special Cases?** 2016
Invited keynote talk at the AAAI workshop on multiagent interaction without prior coordination.
- No Robot is an Island, No Team an Archipelago** 2015, 2016
Tel Aviv University, Ben Gurion University ABC Robotics Initiative. Invited keynote talk at the 2016 Robotics Systems and Science (RSS) workshop on online decision making for multiple robots.
- No Robot is an Island: Translational Psychomimetic Research** 2015
An invited talk at the BrainTech 2015 Conference, Israel.
- Doctoral Mentoring Panel** 2015
A panel at the AAMAS conference doctoral consortium and mentoring program, on career management and PhD advice.
- The Aleph-Bet of Robotics** 2014
An invited talk at an invitation-only workshop on commercialization, investment, and business in the area of Internet-of-Things. Organized by VC firm Aleph.
- Curing Robot Autism: A Challenge to the Community** 2014
An invited talk at workshop on Interactive Intelligence, Lorentz Center, the Netherlands.
- Forward the architecture: Integrated AI through robotics** 2013
Invited talk at BISFAI 2013 (Israel).
- Curing Robot Autism: A Challenge** 2013
An invited presentation (short version) of the above-titled award-winning paper, at the AAAI conference special session highlighting research from other conferences.
- Reusable Teamwork in Multi-Robot Teams** 2012, 2013
Carnegie Mellon University, University of Texas at Austin, University of Massachusetts at Amherst, Massachusetts Institute of Technology, Georgia Institute of Technology, Harvard University, University of Massachusetts at Lowell, Ninth International Workshop on Foundations on Mobile Computing.
- Modeling Crowds: Psycho-history Reinvented** 2012
An invited talk at the Crowds 2012 workshop.
- Modeling Human Crowds and Robot Swarms: Two Different Approaches** 2012
University of Southern California.
- This is Not a Game: Old and New Challenges in Adversarial Reasoning** 2011
Invited talk at the AARM (Applied Adversarial Reasoning and Modeling) workshop, at AAAI.
- Use-Inspired Research in Robotics** 2011
Invited talk at the CARE (Collaborative Agents—Research and Development) workshop, University of Southern California workshop on Use-Inspired Research.
- Unsupervised Data-Mining and Anomaly Detection** 2011
Invited talk at the ADMI (Agents and Data Mining Interaction) workshop.
- Teamwork in Robots: Applying Lessons from Humans** 2011
Invited talk at the annual Taiwan AI Forum (Taipei).
- Towards Rapid Prototyping of Socio-Cognitive Simulations** 2011
An invited talk at the 711 Human Performance Wing, Wright-Patterson Air Force Base.
- Challenges in Robot and Human-Robot Teamwork** 2010
A keynote presentation for *HART* (Human-Agent-Robot Teamwork) 5-day focused workshop.

- A Cognitive Modeling Approach to Crowd Simulations** 2009–2010
An invited talk at University of Southern California’s TEAMCORE group, at the 711 Human Performance Wing, Wright-Patterson Air Force Base, at Singapore Management University (School of Information Sciences).
- RoboCup and Lessons for Science Competitions** 2007, 2009
An invited talk at the AAAI 2007 Workshop on Evaluation of Architectures, and the AAMAS 2009 Workshop on Agent Design: Adapting from Practice to Theory (ADAPT).
- Distributed Multi-Agent Robotics** 2008
An invited talk at the 2008 IEEE International Conference on Distributed Human-Machine Systems.
- Robots are Agents, Too!** 2007
An invited talk at the International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS). Also given at Hebrew University of Jerusalem.
- 10 Years of Situated Teamwork** 2006–2007
University of Trento and ITC-irst, University of Southern California, Ben Gurion University of the Negev National Seminar in AI, EPFL Switzerland Summer Research Institute.
- Single Operator, Multiple Robots: The Case of Coordinated Robots** 2004–2005
University of Southern California Computer Science Department, NASA/JPL, Natanya College, University of Pittsburgh HCI group.
- Teamwork in Autonomous Systems** 2003
El-Op, Ltd. industry day, MAFAT robotics day.
- GameBots: A Research Testbed** 2002
University of Pittsburgh HCI group.
- Monitoring Teams by Overhearing** 2002
University of Massachusetts—Amherst computer science department, Carnegie Mellon University RETSINA group, Interdisciplinary Center in Hertzelia (Israel), Bar Ilan University computer science department.
- Teamwork and Coordination panel member** 2001
A simulation league panel at the International RoboCup 2001 event.
- Teamwork and Coordination panel member** 2001
First NASA workshop on Radical Agent Concepts.
- Multi-Agent Modeling** 2001
Ben Gurion University, Hebrew University of Jerusalem, Tel-Aviv University, Technion: Israel Institute of Technology.
- If I’m OK, and You’re OK, are We OK?** 1999
Carnegie Mellon University CORAL Group, Ben-Gurion University, Hebrew University of Jerusalem.
- Teamwork and Learning in the ISIS RoboCup Team** 1998
Japan Electro-Technical Laboratory (ETL)—now AIST.
- Popular Science* **Programmable Nano-robots for Medical Applications** 2016
A popular-science talk discussing recent advances in nanobots, and how they might be programmed. Bar Ilan University “Science Night”, September.
- We, Robots** 2013
An invited popular-science talk contrasting science fiction literature and culture views of robots, with the commercial and scientific reality; a discussion of Asimov’s three laws of robotics and their significance. Presented at the Israeli conference on science fiction and fantasy (ICON).
- The Robots are Here!** 2013
A popular-science talk on the current and future prospects of robotics. Part of “Mada La’am” series organized by Israel’s Ministry of Science and Technology.

Pets, Slaves, or Companions: Robots in Human Society	2012
A panel, part of a mini-symposium on <i>Robots in Human Society</i> . Moderated by Dr. Guy Hoffman. Other panelists include Prof. Ken Goldberg, Dr. Roey Tzezana.	
The Present and Future of Robotics	2012
An invited popular science talk at the ICON TLV international sci-fi and fantasy festival (Hebrew). Available at http://www.youtube.com/watch?v=0QQHc-B-btM	
Panel on the Technological Singularity: Fashionable Hysteria or a Certain Future?	2012
Moderated by Yael Dan, the other panel members included Dr. Immanuel Lotem, and Yanki Margalit.	
No robot is an island: On the role of multi-robot technology in commercial robotics	An invited talk at the World Innovation Summit 2009.
Multi-Robot Systems	2006–2009
An annual talk at the <i>Computer Science, Academy, and Industry</i> educational program for exceptional high-school students at Weizmann Institute of Science.	
Robotics: Present and Future	2005
Bar Ilan Science Day keynote speech.	
Robotics: Technological and Educational Challenge for Israel	2004
Haifa University robotics competition, keynote address.	

<i>Service Professional Societies</i>	Member, Ethics Committee	Association for Advancement of Artificial Intelligence (AAAI)	2015–Present
	Board Member	International Foundation for Autonomous Agents and Multi-Agent Systems (IFAAMAS)	2008–2014
	Member, Executive Committee	RoboCup Federation	2010–2013
	Member, Executive Council	Association for Advancement of Artificial Intelligence (AAAI)	2008–2011
<i>Journal Editing</i>	Associate Editor	Communications of the ACM (Robotics)	2014–Present
	Coordinating Editor	Journal of Autonomous Agents and Multi-Agent Systems	2007–Present
	Associate Editor	Journal of Artificial Intelligence Research (JAIR)	2013–2016
	Associate Editor (Robotics)	Annals of Mathematics and Artificial Intelligence (AMAI)	2008–2013
	International Scientific Committee	Journal of Physical Agents (JOPHA)	2010–2014
	Guest Editor	Annals of Mathematics and Artificial Intelligence: Special Issue BISFAI 2007. Co-edited with Sarit Kraus.	2009
	Guest Editor	Annals of Mathematics and Artificial Intelligence: Special Issue Multi-Robot Coverage, Search, and Exploration. Co-edited with Amir Shapiro.	2008
<i>Conference Organization</i>	Program Co-Chair, ECAI		2016
	Co-Chair, MATES (German Conference on Multiagent System Technologies)		2015
	Robotics Track Co-Chair, AAMAS		2015
	Integrated Systems Track Co-Chair, AAI		2015
	Program Co-Chair, AAMAS		2010
	Chair, AAMAS Workshop Program		2009
	Co-Chair, AAMAS Doctoral Mentoring Program and Symposium		2008
	Program Co-Chair, BISFAI		2007
	Chair, AAMAS Doctoral Mentoring Program and Symposium		2004
	Co-Chair, RoboCup Symposium		2002
	Chair, RoboCup Soccer Simulation World Cup		2001
	Chair, RoboCup Soccer Simulation Evaluation Sessions		1998–2001
	Member, RoboCup Soccer Simulation Technical Committee		1998–2002

<i>Workshop Organization</i>	Founder & Co-Chair, ARMS (Autonomous Robots and Multirobot Systems) Workshop 2011– Co-Chair, AAAI Workshop on Evaluating Architectures for Intelligence 2007 Program Co-Chair, EUMAS Workshop 2005 Founder & Chair/Co-Chair, MOO (Modeling Others from Observations) Workshop 2004–2006
<i>Program Committee</i>	Served as program committee member (PC) , senior program committee member (SPC) , area chair , and reviewer for various conferences: AAAI, AAMAS, IJCAI, ICRA, IROS, and others. 1999–present.
<i>External Ph.D. Examiner</i>	Joana Dimas Couto Silva Universidade de Lisboa, Instituto Superior Técnico 2016 When “I” becomes “We”: Creating Agents with Dynamic Identity. Matthew Johnson Delft University of Technology, Netherlands 2014 Coactive Design: Designing Support for Interdependence in Human-Robot Teamwork. Aris Valtazanios University of Edinburgh, UK 2013 Decision Shaping and Strategy Learning in Multi-Robot Interactions. Boštjan Kaluža Jožef Stefan International Postgraduate School, Slovenia 2013 Detection of Anomalous and Suspicious Patterns from Spatio-Temporal Agent Traces. Nicola Basilico Politecnico di Milano, Italy 2010 Navigation Strategies for Exploration and Patrolling with Autonomous Mobile Robots. Lavindra de Silva RMIT University, Australia 2009 Planning in BDI Agent Systems. David Poutakidis RMIT University, Australia 2008 Debugging Multi-Agent Systems with Design Documents. Nikolaus Correll École Polytechnique Fédérale de Lausanne (EPFL), Switzerland 2007 Coordination Schemes for Distributed Boundary Coverage with a Swarm of Miniature Robots: Analyses and Experimental Validation. Eric Platon Laboratoire d’informatique de Paris 6, Université Pierre et Marie Curie 2007 Modeling Exception Management in Multi-Agent Systems. Silvia Rossi University of Trento, Italy 2006 Communication and Overhearing for Modelling and Monitoring Group Interactions

Teaching
University Courses I have been teaching academic courses in computer science, at the undergraduate and graduate levels. Repeating titles include *Introduction to Multi-Robot Systems*, *Introduction to Intelligent Systems*, *Computer Structure and Organization*, *Algorithms and Data Structures*, *Agents in Physical Systems*, and *Empirical Methods in Computer Science*.

Tutorials I have given a number of tutorials at international summer schools and conferences, on *Agent Modeling from Observations*, *Robot Teamwork*, and other topics.

Students Graduated Total 11 PhDs, 27 MSc.

Current Ph.D. **Mor Vered** Ph.D. student
Computational Modeling of Cognitive Mirroring Processes.

Roi Yehoshua Ph.D. student
Adversarial Robot Coverage. Co-advised by Noa Agmon, Bar Ilan University.

Current M.Sc. **Mika Barkan** M.Sc. student
Undecided topic in multi-robot systems.

	Rivka Vizen	M.Sc. student (Hebrew University)
	Human identification of candidate spatial goals. Co-advised by Prof. Jeff Rosenschein, Hebrew University of Jerusalem.	
	Ella Checnoverov	M.Sc. student
	Undecided topic in molecular robotics (nanobotics).	
	Niv Rafaeli	M.Sc. student
	Integrating active perception into a decision-making architecture.	
	Yinon Douchan	M.Sc. student (Mech. Eng., Tel Aviv University)
	Reinforcement learning in robot swarms. Co-advised by Avraham Seifert, Tel Aviv University.	
<i>Alumni Ph.D.</i>	Sharon Yalov-Handzel	Ph.D. 2016
	Stable Humanoid Whole Body Motion Generation.	
	Natalie Fridman	Ph.D. 2013
	Modeling Crowd Behavior.	
	Elisheva Bonchek-Dokow	Ph.D. 2012
	Cognitive Modeling of Human Intention Recognition.	
	Ariella Richardson	Ph.D. 2011
	Mining and Classification of Multivariate Sequential Data. Co-advised by Sarit Kraus, Bar Ilan University. <i>Now faculty at Jerusalem College of Technology.</i>	
	Noa Agmon	Ph.D. 2009
	Models and Algorithmic Approaches for Cooperative Multi-Robot Systems. Co-advised by Sarit Kraus, Bar Ilan University. Dissertation was recognized specifically as a runner-up to the <i>IFAAMAS Victor Lesser Best Dissertation Award</i> . <i>Now a post-doc at Univ. of Texas, Austin.</i>	
	Yehuda Elmaliach	Ph.D. 2009
	Multi-Robot Frequency-Based Patrolling. <i>Now faculty at Israeli College of Management, and founder of Cogniteam, Ltd.</i>	
	Dorit Avrahami	Ph.D. 2009
	Efficient Hybrid Algorithms for Plan Recognition and Detection of Suspicious and Anomalous Behavior.	
	Avi Rosenfeld	Ph.D. 2007
	Adaptive coordination for multi-robot and multi-agent teams. Co-advised by Sarit Kraus, Bar Ilan University. <i>Now faculty at Jerusalem College of Technology.</i>	
	Yael Termin	Ph.D. 2007
	Perception of a 3D Colored Image from One Colored and One Gray-Scale Images. Co-advised by Ari Zivotofsky, Bar Ilan University.	
	Meir Kalech	Ph.D. 2007
	Diagnosing Coordination Faults in Multi-Agent Systems. <i>Now faculty at Ben Gurion University, Israel.</i>	
	Gery Gutnik	Ph.D. 2006
	Monitoring large-scale multi-agent systems using overhearing.	
<i>Alumni M.Sc. (thesis)</i>	Inbal Wiesel	M.Sc. 2016
	Rule-based programming of molecular nano-robots. Co-advised by Ido Bachelet and Noa Agmon at Bar Ilan University.	
	Ilan Lupu	M.Sc. 2015
	Optimal Construction of Control Graphs in Multi-Robot Systems. Co-advised by Noa Agmon, Bar Ilan University.	
	Shahar Kosti	M.Sc. 2013
	Single Operator Control of Multiple Robots in Exploration. Co-advised by David Sarne, Bar Ilan University.	
	Limor Marciano (Bagizada)	M.Sc. 2013
	CPNP: Colored Petri-Net Plans for Single and Multiple Robots.	

Matan Kedar Fast Frontier Detector for Robot Exploration.	M.Sc. 2012
Meytal Traub Topics in Multi-Robot Teamwork.	M.Sc. 2011
Eliyahu Khalastchi Anomaly detection and diagnosis in robots and unmanned vehicles. Co-advised by Meir Kalech, and by Raz Lin	M.Sc. 2010
Asaf Shiloni Robot <i>Ants</i> and <i>Elephants</i> : Computational multi-robot systems. Co-advised by Noa Agmon and Ariel Felner.	M.Sc. 2010
Igor Vainer Obtaining Scalable and Accurate Classification in Large Scale Spatiotemporal Domains. Co-advised by Sarit Kraus, Bar Ilan University.	M.Sc. 2009
Dan Erusalimchik Adaptive multi-robot coordination based on resource spending velocity.	M.Sc. 2009
Victor Shafran Multilateral distributed matchmaking, and hybrid multi-robot coverage. Co-advised by Sarit Kraus, Bar Ilan University.	M.Sc. 2008
Niron Cohen-Nov-Slapak On Integrated Multi-Agent Intention Recognition Systems.	M.Sc. 2008
Ari Yakir Soaring Higher: Advanced Teamwork and Development Environment for Computer-Generated Forces.	M.Sc. 2007
Gilad Armon-Kest Supporting Collaborative Activity. Co-advised by Sarit Kraus, Bar Ilan University.	M.Sc. 2007
Natalie Fridman Modeling Crowd Behavior Based On Social Comparison Theory.	M.Sc. 2007
Ido Ikar Area Coverage by a Multi-Robot System.	M.Sc. 2007
Einat Marhasev (Haifa University, Computer Science) Recognition of Duration-Based Behavioral Patterns with Hidden Semi Markov Models. Co-advised by Meirav Hadad.	M.Sc. 2007
Edi Shmukler Anytime Fuzzy Control.	M.Sc. 2006
Eran Shoham (Technion, Industrial Engineering) Multi-Agent Coalition Reformation and League Ranking. Co-advised by Omn Shehory, IBM Research and the Technion.	M.Sc. 2006
Inna Frenkel Flexible Teamwork in Behavior-Based Robots	M.Sc. 2005
Danny Shimony A tool for multi-user, multi-application modeling.	M.Sc. 2005
Noam Hazon Robust and efficient multi-robot coverage.	M.Sc. 2005
Ruti Glick Robust multi-robot formations.	M.Sc. 2005
Yehuda Elmaliach Single operator control of tightly-coordinated multi-robot teams.	M.Sc. 2004
Dorit Avrahami Symbolic behavior recognition.	M.Sc. 2004

<i>Alumni M.Sc.</i> (no thesis)	Alon Levy Multi-Robot Patrolling with Stopping Events.	M.Sc. 2010
	Mark Bramnik Human-assisted robot mapping.	M.Sc. 2009
	Alex Fridman Learning and data-mining for anomaly detection.	M.Sc. 2009

Publications

Books, Edited Books, Proceedings, and Dissertation

- [1] Gal A. Kaminka. *No Robot is an Island: Cooperative Multi-Robot Teams (tentative title)*. Cambridge University Press, Under contract. Forthcoming.
- [2] Gal A. Kaminka, Maria Fox, Paolo Bouquet, Eyke Hüllermeier, Virginia Dignum, Frank Dignum, and Frank van Harmelen, editors. *22nd European Conference on Artificial Intelligence (ECAI 2016)*, volume 285 of *Frontiers in Artificial Intelligence and Applications*. IOS Press, 2016.
- [3] Jörg P. Müller, Wolf Ketter, Gal Kaminka, Gerd Wagner, and Nils Bulling, editors. *Multiagent System Technologies: 13th German Conference (MATES 2015), Cottbus, Germany, September 28 - 30, 2015, Revised Selected Papers*. Number 9433 in *Lecture Notes in Artificial Intelligence*. Springer, 2015.
- [4] Wiebe van der Hoek, Gal A. Kaminka, Yves Lespérance, Michael Luck, and Sandip Sen, editors. *AAMAS 2010: Proceedings of the Ninth International Conference on Autonomous Agents and Multi-Agent Systems*. IFAAMAS: International Foundation for Autonomous Agents and Multiagent Systems, Toronto, Canada, May 2010.
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Refereed Book Chapters

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