

ZINOVI RABINOVICH, PHD

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SHORT BIO

Zinovi Rabinovich is currently an Assistant Professor at the Nanyang Technological University (NTU), which he has joined in 2017 after holding an industrial position for 5 years as a Senior Algorithms Engineer at Mobileye Vision Technologies Ltd. His sustained publication record highlights two key directions of his current research agenda: social behaviour analysis; and choice manipulation. The latter, applied to Security Games via strategic information disclosure, was published in several seed papers in 2015. It has since gathered an independent following.

The academic record of Dr. Rabinovich also includes post-doctoral appointments at the University of Southampton (2007-2010) and the Bar-Ilan University (2010-2011). His PhD is from the Hebrew University of Jerusalem (2008). In 2018 Dr. Rabinovich became a proud father. Proud to a degree that compels noting it here.

EDUCATION

- **Ph.D.** in Computer Science, Hebrew University of Jerusalem, Israel, 2008.
Thesis: “*Dynamics Based Control and Continual Planning*”, supervised by Prof. Jeffrey S. Rosenschein.
- **M.Sc.** in Computer Science, Hebrew University of Jerusalem, Israel, 2002.
Thesis: “*Inapproximability of Decentralized Control*”, supervised by Prof. Jeffrey S. Rosenschein.
- **B.Sc.** in Computer Science and Mathematics, Hebrew University of Jerusalem, Israel, 1998.

RESEARCH INTERESTS: MANIPULATION OF DECISION BEHAVIOUR

- Modelling of manipulative interactions, inclusive of machine-human interactions
- Perceptual control and emergent behaviour

RESEARCH AND DEVELOPMENT EXPERIENCE

Information as a strategic resource and means of control

- Established information disclosure as a means to increased security
- Created models of open manipulation of adaptive and learning algorithms

Formal interaction modelling and solutions

- Described implicit manipulation of voting procedures
- Developed teaching methods by implicit modification of a learner’s environment
- Engineered computational methods for equilibria computation

Human behaviour modelling and exploitation

- Formulated models of human response to open manipulation
- Developed methods for persuasive advice provision to humans

Advanced control algorithm designs

- A fault-tolerant controller scheme for continuous and discrete environments
- A multi-tasking controller with adjustable task coordination
- A family of teamwork oriented controllers
- A fully distributed emergent behaviour controller

Guidance and control based on visual cues

- Visual features detection, e.g. road surface markings, human body, etc
- (re)Construction of high level driver guidance

EMPLOYMENT HISTORY

Assistant Professor, Nanyang Technological University, Singapore **February 2017-present**
Senior Algorithms Engineer, MobilEye Vision Technologies Ltd., Israel **August 2012-February 2017**
Algorithms Developer, MobilEye Vision Technologies Ltd., Israel **April 2012-July 2012**

- Guidance and control based on visual cues
- Large scale visual (weekly structured) features detection
- Development and deployment of Deep Neural Network (DNN) based solutions
- Hybrid algorithmic solutions
- Client support in matching algorithmic and regulation system requirements

Postdoctoral Researcher, Department of Computer Science, Bar-Ilan University, Israel **2010-2011**

- Formal open manipulation and persuasion method by information disclosure and/or direct advice of action
- Modelling techniques of human response to a manipulative companion
- Augmentation of formal persuasion methods and application to human subjects
- Interfacing the technology with the industrial partner (GM Advanced Research Centre)
- Publication of non-copyrighted material

Research Fellow, “Market Based Control” project, ECS, University of Southampton, United Kingdom .. **2007-2010**

- Computational methods for complex equilibria with application to auction analysis
- Development of a novel formal teacher-learner framework
- Development of fault-tolerant control methods
- Publication of research outcomes

Manager of the Assistant Teaching Staff, Hebrew University of Jerusalem, Israel **2006–2007**

Teacher, Hebrew University of Jerusalem, Israel **2005–2006**

Teaching Assistant, Hebrew University of Jerusalem, Israel **1999–2005**

RESEARCH GRANTS

- NTU Start-Up-Grant, 200K S\$, 15-Feb-2017 through 14-Feb-2020
- AcRF Tier-1 Grant, 97K S\$, 1-Nov-2018 through 31-Oct-2019

STUDENT SUPERVISION

PhD, Nanyang Technological University, Singapore **2018-present**

- Xu Hang, January 2019 intake

MEng by Research, Nanyang Technological University, Singapore **2018-present**

- Zhou Jing Zhe, 2018–present

Final Year Projects, Nanyang Technological University, Singapore **2018-present**

- “Genetic Algorithms for Swarm Parameter Tuning” by Chee Jun Yuan Glenn, 2018-2019 (current)
- “Socially aware flocking” by Ng Ken Jo, 2017-2018

MSc Student Co-Supervisor, Hebrew University of Jerusalem, Israel **2004–2008**

- “Dynamics based control with PSRs” by Ariel Adam, Hebrew University, 2008
- “Behaviosites: Manipulation of global multiagent system behavior through parasitic infection” by Amit Shabtay, Hebrew University, 2006
- “The effects of parenting on genetic and learning agents” by Michael Berger, Hebrew University, 2004

Graduate Engineering Projects, Hebrew University of Jerusalem, Israel **2007-2008**

- “HANS - HUJI’s Autonomous Navigation System” by D. Lax, K. Haas and Y. Movshovitz.

TEACHING RECORD

Instructor (Lec/Tut), SCSE, Nanyang Technological University, Singapore **2017-current**

- CZ/CE 4016 (2017/18, 2018/19) – Lec – Advanced Topics in Algorithms
- CZ/CE 1007 (2018/19) – Tut – Operating Systems
- CZ/CE 1007 (2017/18) – Tut – Data Structures
- CZ/CE 3005 (2016/17) – Tut – Artificial Intelligence

Tutorial Developer and Presenter, IJCAI “Voting and Candidacy Games” **2017**

Tutorial Developer and Presenter, AAMAS “Voting and Candidacy Games” **2015**

Tutorial Developer and Presenter, AAMAS “Decision Making in Multiagent Settings” **2008-2014**

Teacher (Acting Lecturer), Hebrew University of Jerusalem, Israel **2005–2006**

- Re-design of an “Artificial Intelligence” course curriculum
- Design and delivery of lecture series
- Design of student achievement testing

Teaching Assistant, Hebrew University of Jerusalem, Israel **1999–2005**

PUBLIC AND PROFESSIONAL SERVICE

- Advisory Committee Member, AAMAS Workshop on Multiagent Sequential Decision Making Under Uncertainty (MSDM), 2014-2015
- Co-Organiser of Conference Tutorials
 - “Decision Making in Multiagent Settings” Tutorial, AAMAS’08-’14
 - “Voting and Candidacy Games” Tutorial AAMAS’15, IJCAI’17
- Senior Program Committee Member
 - Autonomous Agents and Multiagent Systems (AAMAS) Conference 2018, 2019
 - International Joint Conference on Artificial Intelligence (IJCAI) 2016, 2017
 - **Endorsed** by peers for performance at IJCAI-2016
 - International Conference on Principles and Practice of Multi-Agent Systems (PAAMS) 2017
- Program Committee Member
 - Conferences
 - Autonomous Agents and Multiagent Systems (AAMAS) Conference Series 2006-2008, 2012-2017
 - Association for the Advancement of Artificial Intelligence Conference (AAAI) 2015-2018
 - International Joint Conference on Artificial Intelligence (IJCAI) for year 2018
 - **Endorsed** by peers for performance
 - Mexican International Conference on Artificial Intelligence 2011
 - IEEE International Conference on Systems, Man, and Cybernetics 2013
 - Workshops
 - Adversarial Reasoning in Multi-agent Systems (ADVERSE) 2017
 - Security and Multi-agent Systems (SecMAS) Workshop 2016
 - Modelling Others from Observations (MOO) Workshop 2004
 - Multiagent Sequential Decision Making (MSDM) Workshop 2006-2015
 - International Workshop on Optimisation in Multi-Agent Systems (OptMAS) 2008
 - Agent-Mediated Electronic Commerce (AMEC) Workshop 2011, 2012, 2014
- Reviewer
 - Conferences
 - International Joint Conference on Artificial Intelligence (IJCAI) for years 2005-2015
 - Association for the Advancement of Artificial Intelligence Conference (AAAI) (formerly the American Association for Artificial Intelligence) 2005, 2006, 2010, 2011, 2014

- Journals
 - Mathematical Programming
 - Journal of Autonomous Agents and Multi-Agent Systems (JAAMAS)
 - Artificial Intelligence Journal
 - Transactions on Autonomous and Adaptive Systems
 - Computational Intelligence Journal
 - Robotics and Autonomous Systems Journal
 - Annals of Operations Research
- Workshops
 - Interactive Decision Theory and Game Theory (IDTGT) Workshop 2011
 - Agents and Data Mining Interaction (ADMI) Workshop 2012

Publications

Journals (heavily refereed)

- [1] Amos Azaria, Sarit Kraus, Claudia V. Goldman, and Zinovi Rabinovich. Strategic information disclosure to people with multiple alternatives. *ACM Transactions on Intelligent Systems and Technology (TIST)*, 5(4):64, 2014.
- [2] Zinovi Rabinovich, Victor Naroditskiy, Enrico H. Gerding, and Nicholas R. Jennings. Computing pure Bayesian Nash equilibria in games with finite actions and continuous types. *Artificial Intelligence Journal*, 195:106–139, 2013.
- [3] Zinovi Rabinovich and Nicholas R. Jennings. A hybrid controller based on the egocentric perceptual principle. *Robotics and Autonomous Systems*, 58(9):1039–1048, 2010. Special Issue: Hybrid Control of Autonomous Systems.

Conferences (heavily refereed)

- [4] David Ben Yosef, Lihi Naamani-Dery, Marina Bannikova, Svetlana Obraztsova, and Zinovi Rabinovich. Haste makes waste: a case to favour voting bots. In *Proceedings of the IEEE/WIC/ACM International Conference on Web Intelligence (WI, former WI/IAT)*, pages 419–425, 2017.
- [5] Svetlana Obraztsova, Omer Lev, Evangelos Markakis, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Distant truth: Bias under vote distortion costs. In *Proceedings of the 16th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2017)*, pages 885–892, 2017.
- [6] Itay Sabato, Svetlana Obraztsova, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Real candidacy games: a new model for strategic candidacy. In *Proceedings of the 16th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2017)*, pages 867–875, 2017.
- [7] Svetlana Obraztsova, Maria Polukarov, Zinovi Rabinovich, and Edith Elkind. Doodle poll games. In *Proceedings of the 16th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2017)*, pages 876–884, 2017.
- [8] Svetlana Obraztsova, Zinovi Rabinovich, Edith Elkind, Maria Polukarov, and Nicholas R. Jennings. Trembling hand equilibria of plurality voting. In *Proceedings of the 25th International Joint Conference on Artificial Intelligence (IJCAI-2016)*, pages 440–446, 2016.
- [9] Svetlana Obraztsova, Omer Lev, Evangelos Markakis, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Beyond plurality: Truth bias in binary scoring rules. In *Proceedings of the 4th International Conference of Algorithmic Decision Theory (ADT-2015)*, pages 451–468, 2015.
- [10] Svetlana Obraztsova, Edith Elkind, Maria Polukarov, and Zinovi Rabinovich. Strategic candidacy games with lazy candidates. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI-2015)*, pages 610–616, 2015.
- [11] Haifeng Xu, Albert X. Jiang, Arunesh Sinha, Zinovi Rabinovich, Shaddin Dughmi, and Milind Tambe. Security games with information leakage: Modeling and computation. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI-2015)*, pages 674–680, 2015.
- [12] Lihi Naamani-Dery, Svetlana Obraztsova, Zinovi Rabinovich, and Meir Kalech. Lie on the fly: Manipulative voters under iterative voting centre. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI-2015)*, pages 2033–2039, 2015.
- [13] Maria Polukarov, Svetlana Obraztsova, Zinovi Rabinovich, Alexander Kruglyi, and Nicholas R. Jennings. Convergence to equilibria in strategic candidacy. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI-2015)*, pages 624–630, 2015.

- [14] Zinovi Rabinovich, Manish Jain, Albert Xin Jiang, and Haifeng Xu. Information disclosure as a means to security. In *Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2015)*, pages 645–653, 2015.
- [15] Svetlana Obraztsova, Evangelos Markakis, Maria Polukarov, Zinovi Rabinovich, and Nicholas R. Jennings. On the convergence of iterative voting: How restrictive should restricted dynamics be? In *Proceedings of the 29th AAAI Conference on Artificial Intelligence (AAAI-2015)*, pages 993–999, 2015.
- [16] Zinovi Rabinovich, Svetlana Obraztsova, Omer Lev, Evangelos Markakis, and Jeffrey S. Rosenschein. Analysis of equilibria in iterative voting schemes. In *Proceedings of the 29th AAAI Conference on Artificial Intelligence (AAAI-2015)*, pages 1007–1013, 2015.
- [17] Haifeng Xu, Zinovi Rabinovich, Shaddin Dughmi, and Milind Tambe. Exploring information asymmetry in two-stage security games. In *Proceedings of the 29th AAAI Conference on Artificial Intelligence (AAAI-2015)*, pages 1057–1063, 2015.
- [18] Yoad Lewenberg, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Ishikawa play. In *The 12th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2013)*, pages 627–634, 2013.
- [19] Amos Azaria, Zinovi Rabinovich, Sarit Kraus, Claudia V. Goldman, and Omer Tsimhoni. Giving advice to people in path selection problems. In *Proceedings of the 11th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2012)*, pages 459–466, 2012.
- [20] Amos Azaria, Zinovi Rabinovich, Sarit Kraus, and Claudia V. Goldman. Strategic information disclosure to people with multiple alternatives. In *Proceedings of the 25th AAAI Conference on Artificial Intelligence (AAAI-2011)*, pages 594–600, 2011.
- [21] Zinovi Rabinovich, Lachlan Dufton, Kate Larson, and Nicholas R. Jennings. Cultivating desired behaviour: Policy teaching via environment-dynamics tweaks. In *Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2010)*, pages 1097–1104, 2010.
- [22] Zinovi Rabinovich, Enrico Gerding, Maria Polukarov, and Nicholas R. Jennings. Generalised fictitious play for a continuum of anonymous players. In *Proceedings of the 21st International Joint Conference on Artificial Intelligence (IJCAI-2009)*, pages 245–250, 2009.
- [23] Zinovi Rabinovich, Nir Pochter, and Jeffrey S. Rosenschein. Coordination and multi-tasking using EMT. In *Proceedings of the 23rd National Conference on Artificial Intelligence (AAAI-2008)*, pages 144–149, 2008.
- [24] Ariel Adam, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Dynamics Based Control with PSRs. In *Proceedings of the 7th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2008)*, pages 387–394, 2008.
- [25] Zinovi Rabinovich, Jeffrey S. Rosenschein, and Gal A. Kaminka. Dynamics Based Control with an application to area-sweeping problems. In *Proceedings of the 6th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2007)*, pages 785–792, 2007.
- [26] Amit Shabtay, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Behaviosites: Manipulation of multiagent system behavior through parasitic infection. In *Proceedings of the 21st National Conference on Artificial Intelligence (AAAI-2006)*, pages 709–715, 2006.
- [27] Amit Shabtay, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Behaviosites: A novel paradigm for affecting distributed behavior. In *Proceedings of the 5th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2006)*, pages 679–681, 2006.
- [28] Zinovi Rabinovich and Jeffrey S. Rosenschein. On the response of EMT-based control to interacting targets and models. In *Proceedings of the 5th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2006)*, pages 465–470, 2006.
- [29] Zinovi Rabinovich and Jeffrey S. Rosenschein. Multiagent coordination by Extended Markov Tracking. In *Proceedings of the 4th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2005)*, pages 431–438, 2005.

— Short Papers & Conference Abstracts —

- [30] Svetlana Obraztsova, Omer Lev, Evangelos Markakis, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Beyond plurality: Truth bias in binary scoring rules. In *Proceedings of the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2015)*, pages 1733–1734, 2015.
- [31] Svetlana Obraztsova, Zinovi Rabinovich, and Alexandra Madunts. Faustian dynamics in Sarkar’s social cycle. In *Proceedings of the 21st European Conference on Artificial Intelligence (ECAI-2014)*, pages 1071 – 1072, 2014.
- [32] Enrico Gerding, Zinovi Rabinovich, Andrew Bye, Edith Elkind, and Nicholas R. Jennings. Approximating mixed Nash equilibria using smooth fictitious play in simultaneous auctions. In *Proceedings of the 7th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2008)*, pages 1577–1580, 2008.
- [33] Zinovi Rabinovich, Claudia V. Goldman, and Jeffrey S. Rosenschein. The complexity of multiagent systems: The price of silence. In *Proceedings of the 2nd International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2003)*, pages 1102–1103, July 2003.

Workshops (refereed)

- [34] Svetlana Obraztsova, Omer Lev, Maria Polukarov, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Non-myopic voting dynamics: An optimistic approach. In *The 10th Workshop on Advances in Preference Handling (MPref), at the 25th International Joint Conference on Artificial Intelligence (IJCAI-2016)*, 2016. (Reworked and expanded from AGT@IJCAI-2015).
- [35] Marina Bannikova, Lihi Naamani-Dery, Svetlana Obraztsova, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Between fairness and a mistrial: Consensus under a deadline. In *The 10th Workshop on Advances in Preference Handling (MPref), at the 25th International Joint Conference on Artificial Intelligence (IJCAI-2016)*, 2016.
- [36] Itay Sabato, Svetlana Obraztsova, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Real candidacy games: a new model for strategic candidacy. In *The 2nd IJCAI Workshop on Algorithmic Game Theory (AGT), at the 25th International Joint Conference on Artificial Intelligence (IJCAI-2016)*, 2016.
- [37] Svetlana Obraztsova, Maria Polukarov, Zinovi Rabinovich, and Edith Elkind. Doodle poll games. In *6th International Workshop on Computational Social Choice (ComSoc-2016)*, 2016.
- [38] Svetlana Obraztsova, Evangelos Markakis, Maria Polukarov, Zinovi Rabinovich, and Nicholas R. Jennings. On the convergence of iterative voting: How restrictive should restricted dynamics be? In *5th International Workshop on Computational Social Choice (ComSoc-2014)*, 2014.
- [39] Zinovi Rabinovich, Svetlana Obraztsova, Omer Lev, Evangelos Markakis, and Jeffrey S. Rosenschein. Analysis of equilibria in iterative voting schemes. In *5th International Workshop on Computational Social Choice (ComSoc-2014)*, 2014.
- [40] Zinovi Rabinovich. Strategic behaviour under constrained autonomy. In *AAMAS Workshop on Multiagent Sequential Decision Making Under Uncertainty (MSDM-2012)*, 2012.
- [41] Amos Azaria, Zinovi Rabinovich, Sarit Kraus, Claudia V. Goldman, and Omer Tsimhoni. Giving advice to people in path selection problems. In *Proceedings of the Interactive Decision Theory and Game Theory Workshop (IDTGT-2011)*, 2011.
- [42] Zinovi Rabinovich and Nicholas R. Jennings. Extended Markov tracking with ensemble actions. In *Proceedings of the HYCAS Workshop at IJCAI (HYCAS-2009)*, 2009.
- [43] Zinovi Rabinovich and Jeffrey S. Rosenschein. Dynamics Based Control: Structure. In *Workshop on Multi-Agent Sequential Decision Making in Uncertain Domains (MSDM-2006)*, pages 148–161, 2006.
- [44] Zinovi Rabinovich and Jeffrey S. Rosenschein. Dynamics Based Control: An introduction. In *The 3rd European Workshop on Multi-Agent Systems, EUMAS-2005*, pages 323–331, 2005.

- [45] Osnat Shapira, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Simulation of cooperative behavioral trends by local interaction rules. In *The 3rd European Workshop on Multi-Agent Systems, EUMAS-2005*, pages 387–396, 2005.
- [46] Zinovi Rabinovich and Jeffrey S. Rosenschein. Robot-control based on Extended Markov Tracking: Initial experiments. In *The 8th Biennial Israeli Symposium on the Foundations of Artificial Intelligence (BISFAI-2005)*, 2005.
- [47] Zinovi Rabinovich and Jeffrey S. Rosenschein. Extended Markov Tracking with an application to control. In *The Workshop on Agent Tracking: Modeling Other Agents from Observations, at the 3rd International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2004)*, pages 95–100, 2004.
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Book Chapters

- [48] Amit Shabtay, Zinovi Rabinovich, and Jeffrey S. Rosenschein. Behaviosites: A novel paradigm for affecting distributed behavior. In S. Brueckner, S. Hassas, M. Jelasity, and D. Yamins, editors, *The Fourth International Workshop on Engineering Self-Organizing Applications, Hakodate, Japan (ESOA 2006)*, number 4335 in Lecture Notes in Artificial Intelligence, pages 82–98. Springer, Berlin, 2006.
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Tutorial Booklets

- [49] Svetlana Obratzsova, Maria Polukarov, and Zinovi Rabinovich. Voting and candidacy games. Tutorial of the International Joint Conference on Autonomous agents and Multiagent Systems (AAMAS), 2015.
- [50] Prashant Doshi and Zinovi Rabinovich. Decision making in extended multiagent interactions (DEMI). Tutorial of the International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2008.
- [51] Prashant Doshi, Zinovi Rabinovich, and Piotr J. Gmytrasiewicz. DEMI: Expanded version. Tutorial of the International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2009.
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Miscellaneous

- [52] Marina Bannikova, Lihi Naamani-Dery, Svetlana Obratzsova, and Zinovi Rabinovich. Between fairness and a mistrial: Consensus under a deadline. *Artificial Intelligence*, 2018. under submission for review.
- [53] Lihi Naamani-Dery, Svetlana Obratzsova, Zinovi Rabinovich, and Meir Kalech. Lie on the fly: Manipulative voters under iterative voting centre. *IEEE Systems, Man and Cybernetics: Systems*, 2018. submitted for review.
- [54] Svetlana Obratzsova and Zinovi Rabinovich. Dynamic equilibrium and social cycle. In *The 12th Bar-Ilan Symposium on the Foundations of Artificial Intelligence (BISFAI-2013)*, 2013.
- [55] Zinovi Rabinovich and Jeffrey S. Rosenschein. Dynamics based control: Multi-agent algorithms. In preparation.
- [56] Zinovi Rabinovich, Lachlan Dufton, Kate Larson, and Nicholas R. Jennings. Cultivating desired behaviour: Finite and lifelong policy teaching. In preparation.
- [57] Zinovi Rabinovich, Claudia V. Goldman, and Jeffrey S. Rosenschein. Non-approximability of centralized control. Technical Report 2002-29, Leibniz Center for Computer Science, Hebrew University, 2002.