

Curriculum Vita (CV) - Amos Azaria

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1 Academic Background

- 2016 - Present: Senior Lecturer at Ariel University, Israel
- 2014 - 2016: Postdoctoral researcher, Machine Learning department, Carnegie Mellon University, Pittsburgh, PA
- 2010 - 2014: PhD in computer science, Bar Ilan University, Ramat-Gan, Israel
Thesis entitled: Automated Agents for Human Persuasion
Supervisors: Prof. Sarit Kraus and Prof. Yonatan Aumann
- 2002 - 2003: B.A. in computer science, outstanding excellence,
The Technion Institute of Technology , Haifa, Israel

2 Publications

2.1 Journals

1. Azaria A, Sarne D, Aumann Y
Distributed Matching with Mixed Maximum-Minimum Utilities, ACM Transactions on Economics and Computation (TEAC) journal (to appear) PDF.
2. Chaudhari S, Azaria A, Mitchell T
An Entity Graph Based Recommender System, AI Communications (to appear) PDF.
3. Subrahmanian VS, Azaria A, Dekhtyar A, Durst S, Stevens A, Kagan V, Galstyan A, Gao S, Kooti F, Lerman K, Liu Y, Zhu L, Ferrara E, Varol O, Shiralkar P, Menczer F, Flammini A, Mei Q, Vydiswaran V, Waltzman R
The DARPA Twitter Bot Challenge, IEEE Computer journal, 2016 (IF: 1.203) PDF.
4. Azaria A, Richardson A, Rosenfeld A
Automated Agents and Human Cultures in the Trust-Revenge Game
Journal of Autonomous Agents and Multiagent Systems (JAAMAS), 2016 (IF: 1.417) PDF.

5. Azaria A, Kraus S, Goldman CV, Gal Y
Strategic Advice Provision in Repeated Human-Agent Interactions
Journal of Autonomous Agents and Multiagent Systems (JAAMAS), 30(1):4-29, 2016
(IF: 1.417).
PDF.
6. Azaria A, Rosenfeld A, Karus S, Goldman C V, Tsimhoni O
Advice Provision for Energy Saving in Automobile Climate Control Systems AI Magazine, 36(3):61-72 2015 (IF:0.628)
PDF.
7. Azaria A, Richardson A, Kraus S, VS Subrahmanian
Behavioral Analysis of Insider Threat: A Survey and Bootstrapped Prediction in Imbalanced Data
IEEE Transactions on Computational Social Systems Journal, 1(2):135-155, 2014 (IF: n/a)
PDF.
8. Azaria A, Rabinovich Z, Kraus S, Goldman CV
Strategic Information Disclosure to People with Multiple Alternatives, Transactions on Intelligent Systems and Technology (TIST) ACM Journal, 5(4):64.1-64.21, 2014 (IF: 1.252)
PDF.
9. Azaria A, Aumann Y, Kraus S
Automated Agents for Reward Determination for Human Work in Crowdsourcing Applications, Autonomous Agents and Multi-Agent Systems, 28(6):934-955, 2014 (IF: 1.254)
PDF
10. Rosenfeld A, Zukerman I, Azaria A, Kraus S
Combining Psychological Models with Machine Learning to Better Predict People's Decisions, Synthese Journal, 2012. 189:81-93, 2012 (IF: 0.880).
PDF

2.2 Highly Refereed Conferences - Full Papers

11. Srivastava S., Azaria A., Mitchell T. Parsing Natural Language Conversations using Contextual Cues, IJCAI, 2017 PDF
12. Li T., Azaria A., Myers B.
SUGILITE: Creating Multimodal Smartphone Automation by Demonstration, CHI, 2017, **Honorable Mention Award** PDF
13. Huang TH, Lasecki W., Azaria A., Bigham JP.
Is there anything else I can help you with?: Challenges in Deploying an On-Demand Crowd-Powered Conversational Agent, HCOMP, 2016 PDF

14. Azaria A, Hong J
Recommender Systems with a Personality, RecSys, 2016 (Past, Present and Future Track) PDF
15. Azaria A, Krishnamurthy J, Mitchell T
Instructable Intelligent Personal Agent, AAAI, 2016
PDF
16. Shvartzon A, Azaria A, Kraus S, Goldman C, Meyer J, Tsimhoni O
Personalized Alert Agent for Optimal User Performance, AAAI, 2016 (also appears as a short paper in AAMAS 2015 and HAIDM workshop)
PDF
17. Rosenfeld A, Maksimov O, Agmon N, Azaria A, Kraus S
Intelligent Agent Supporting Human-Multi-Robot Team Collaboration, IJCAI-2105
Best Robotics Video Award PDF.
18. Rosenfeld A, Azaria A, Kraus S, Goldman C, Tsimhoni O
Adaptive Advice in Automobile Climate Control Systems, AAMAS, 2015
(also presented in AAAI'15 workshop)
PDF
19. Azaria A, Richardson A, Kraus S
An Agent for Deception Detection in Discussion Based Environments, CSCW, 2015
(also appears as a short paper in AAMAS-2014 and presented in HAIDM workshop in AAMAS 2013 and Israeli IAAI 2014)
PDF
20. Buntain C, Azaria A, Kraus S
Leveraging Fee-Based, Imperfect Advisors in Human-Agent Games of Trust, AAAI, 2014
PDF
21. Azaria A, Karus S, Goldman C V, Tsimhoni O
Advice Provision for Energy Saving in Automobile Climate Control Systems, IAAI, 2014
(also appears as an extended abstract in AAMAS 2014)
PDF.
22. Azaria A, Richardson A, Kraus S
An Agent for the Prospect Presentation Problem, AAMAS, 2014
PDF.
23. Azaria A, Hassidim A, Kraus S, Eshkol A, Weintraub O, Netanely I
Movie Recommender System for Profit Maximization, RecSys, 2013
PDF.
24. Nguyen T, Yang R, Azaria A, Kraus S, Tambe M
Analyzing the effectiveness of adversary modeling in security games, AAAI, 2013

(also appears as an extended abstract in AAMAS 2013 and presented in HAIDM 2013)
PDF

25. Bitan M, Gal Y, Kraus S, Dokov E, Azaria A
Social Rankings in Human-Computer Committees, AAAI, 2013
PDF
26. Azaria A, Aumann Y, Kraus S
Automated Strategies for Determining Rewards for Human Work, AAAI 2012
(also presented in HAIDM workshop in AAMAS 2012)
PDF
27. Azaria A, Rabinovich Z, Kraus S, Goldman CV, Gal Y
Strategic Advice Provision in Repeated Human-Agent Interactions, AAAI 2012
(also presented in HAIDM workshop in AAMAS 2012)
PDF.
28. Azaria A, Rabinovich Z, Kraus S, Goldman CV, Tsimhoni O,
Giving Advice to People in Path Selection Problems, AAMAS, 2012
(also presented in Interactive Decision Theory and Game Theory 2011 WS)
PDF.
29. Azaria A, Rabinovich Z, Kraus S, Goldman CV,
Strategic Information Disclosure to People with Multiple Alternatives, AAAI, 2011
(also presented in BISFAI 2011)
PDF.

2.3 Short Papers / Extended Abstracts

30. Chaudhari S, Azaria A, Mitchell T
An Entity Graph Based Recommender System, RecSys'16 PDF
31. Huang TH, Azaria A, Bigham J
InstructableCrowd: Creating IF-THEN Rules via Conversations with the Crowd,
CHI'16 (LBW track) **Best Paper Honorable Mention Award**
PDF
32. Azaria A, Kraus S, Goldman CV, Gal Y
Advice Provision for Choice Selection Processes with Ranked Options, AAAI 2014
(also presented in HAIDM workshop in AAMAS 2014)
PDF.
33. Azaria A, Richardson A, Elmalech A, Rosenfeld A
Automated Agents' Behavior in the Trust-Revenge Game in Comparison to Other
Cultures, AAMAS 2014
PDF.

34. Azaria A, Kraus S and Richardson A
A System for Advice Provision in Multiple Prospect Selection Problems, RecSys 2013
(also appears as an extended abstract in AAAI 2013 and presented in HAIDM workshop 2013)
PDF.
35. Azaria A, Sarne D, Aumann Y
Distributed Matching with Mixed Maximum-Minimum Utilities, IAT 2012
(also presented in AMEC WS in AAMAS 2012)
PDF

2.4 Workshops

36. Li T, Myers B, Azaria A, Labutov I, Rudnicky A, Mitchell T
Designing a Conversational Interface for a Multimodal Smartphone Programming-by-Demonstration Agent, CHI 2017 workshop on Conversational UX Design
37. Azaria A, Richardson A, Elmalech A, Rosenfeld A, Kraus S, Sarne D
On Automated Agents Rationality, HAIDM (In AAMAS) 2013
PDF

3 Research Interests and Goals

- Human-agent Interaction
- Instructable Agents
- Modeling and Predicting Human behavior and Decision Making
- Machine Learning
- Deception Detection (Including Web-Deception)
- Natural Language Processing

4 Awards, Scholarships and Grants

- CHI'17 Honorable Mention Award
- 2016 GRO Samsung grant of \$100K for “Learning by Instruction Agent (LIA)”.
- **2015 IFAAMAS Victor Lesser Distinguished Dissertation Award**
- CHI'16 LBW Best Paper Honorable Mention Award
- 2015 GRO Samsung grant of \$100K for “Teaching Mobile Devices New Tasks by Instruction” (Co-PI: Tom Mitchell).
- Member of winning team in DARPA SMISC competition, 2015 on bot detection.

- The Presidential Scholarship for Doctoral Studies in Bar-Ilan (2011-2014).
- Technion outstanding excellence scholarship for 2003, and 2002.

5 Scientific Community Participation

- Program Committee member of: AAAI 2018, AAMAS 2017, CSCW'17 (poster session), AAAI 2017, EAAI 2017, HAIDM workshop 2016, ECAI 2016, IJCAI 2016, AAMAS 2016, AAAI 2016, EAAI 2016, IJCAI 2015, HAIDM workshop 2015, AAMAS 2015, AAAI 2014, AAMAS 2014
- Review of papers in the following Journals: Artificial Intelligence (AIJ), Journal of Artificial Intelligence Research (JAIR), Journal of Autonomous Agents and Multiagent Systems (JAAMAS), Knowledge-Based Systems, and Artificial Intelligence Review (AIRE)