Iyad Rahwan

List of Publications by Citations

112 papers	3,983 citations	26 h-index	61 g-index
123 ext. papers	5,229 ext. citations	7.6 avg, IF	6.18 L-index

#	Paper	IF	Citations
112	The social dilemma of autonomous vehicles. *Science*, **2016**, 352, 1573-6	33.3	656
111	The Moral Machine experiment. *Nature*, **2018**, 563, 59-64	50.4	477
110	Argumentation-based negotiation. *Knowledge Engineering Review*, **2003**, 18, 343-375	2.1	291
109	Machine behaviour. *Nature*, **2019**, 568, 477-486	50.4	288
108	Towards an argument interchange format. *Knowledge Engineering Review*, **2006**, 21, 293-316	2.1	155
107	A genetic algorithm approach for location-inventory-routing problem with perishable products. *Journal of Manufacturing Systems*, **2017**, 42, 93-103	9.1	150
106	Society-in-the-loop: programming the algorithmic social contract. *Ethics and Information Technology* , **2018**, 20, 5-14	3.7	133
105	Toward understanding the impact of artificial intelligence on labor. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 6531-6539	11.5	127
104	Time-critical social mobilization. *Science*, **2011**, 334, 509-12	33.3	121
103	Psychological roadblocks to the adoption of self-driving vehicles. *Nature Human Behaviour*, **2017**, 1, 694-698	12.8	115
102	Empirical evidence of mental health risks posed by climate change. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10953-10958	11.5	97
101	Laying the foundations for a World Wide Argument Web. *Artificial Intelligence*, **2007**, 171, 897-921	3.6	93
100	Cooperating with machines. *Nature Communications*, **2018**, 9, 233	17.4	70
99	Unpacking the polarization of workplace skills. *Science Advances*, **2018**, 4, eaao6030	14.3	47
98	An argumentation based approach for practical reasoning **2006**,		45
97	Inducing peer pressure to promote cooperation. *Scientific Reports*, **2013**, 3, 1735	4.9	43
96	Universals and variations in moral decisions made in 42 countries by 70,000 participants. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 2332-2337	11.5	39

95	Limits of social mobilization. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6281-6	11.5	39
94	Behavioural evidence for a transparency–efficiency tradeoff in human–machine cooperation. *Nature Machine Intelligence*, **2019**, 1, 517-521	22.5	38
93	Behavioral experiments for assessing the abstract argumentation semantics of reinstatement. *Cognitive Science*, **2010**, 34, 1483-502	2.2	36
92	Small cities face greater impact from automation. *Journal of the Royal Society Interface*, **2018**, 15,	4.1	34
91	Analyzing gender inequality through large-scale Facebook advertising data. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 6958-6963	11.5	30
90	Dialogue games that agents play within a society. *Artificial Intelligence*, **2009**, 173, 935-981	3.6	30
89	The Trolley, The Bull Bar, and Why Engineers Should Care About The Ethics of Autonomous Cars [point of view]. *Proceedings of the IEEE*, **2019**, 107, 502-504	14.3	29
88	Towards interest-based negotiation **2003**,		29
87	Global Manhunt Pushes the Limits of Social Mobilization. *Computer*, **2013**, 46, 68-75	1.6	26
86	The evolution of citation graphs in artificial intelligence research. *Nature Machine Intelligence*, **2019**, 1, 79-85	22.5	25
85	. *IEEE Intelligent Systems*, **2007**, 22, 21-23	4.2	25
84	Mass argumentation and the semantic web. *Web Semantics*, **2008**, 6, 29-37	2.9	25
83	Argumentation and Game Theory **2009**, 321-339		24
82	STRATUM: A METHODOLOGY FOR DESIGNING HEURISTIC AGENT NEGOTIATION STRATEGIES. *Applied Artificial Intelligence*, **2007**, 21, 489-527	2.3	21
81	Representing and classifying arguments on the Semantic Web. *Knowledge Engineering Review*, **2011**, 26, 487-511	2.1	20
80	Beyond Contagion: Reality Mining Reveals Complex Patterns of Social Influence. *PLoS ONE*, **2015**, 10, e0135740	3.7	20
79	The Anti-Social System Properties: Bitcoin Network Data Analysis. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 50, 21-31	7.3	20
78	Verification in referral-based crowdsourcing. *PLoS ONE*, **2012**, 7, e45924	3.7	19

77	Drivers are blamed more than their automated cars when both make mistakes. *Nature Human Behaviour*, **2020**, 4, 134-143	12.8	19
76	Programming Deliberative Agents for Mobile Services: The 3APL-M Platform. *Lecture Notes in Computer Science*, **2006**, 222-235	0.9	19
75	Coauthorship network in transportation research. *Transportation Research, Part A: Policy and Practice*, **2017**, 100, 135-151	3.7	18
74	Error and attack tolerance of collective problem solving: The DARPA Shredder Challenge. *EPJ Data Science*, **2014**, 3,	3.4	18
73	Architectures for Negotiating Agents **2003**, 136-146		18
72	Information verification during natural disasters **2013**,		17
71	Crowdsourcing moral machines. *Communications of the ACM*, **2020**, 63, 48-55	2.5	17
70	Effects of environmental stressors on daily governance. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8710-8715	11.5	16
69	An empirical study of interest-based negotiation. *Autonomous Agents and Multi-Agent Systems*, **2011**, 22, 249-288	2	15
68	The Argument Interchange Format **2009**, 383-402		15
67	Argumentation in Multi-Agent Systems: Context and Recent Developments. *Lecture Notes in Computer Science*, **2007**, 1-16	0.9	15
66	Corruption drives the emergence of civil society. *Journal of the Royal Society Interface*, **2014**, 11, 20131044	4.1	14
65	Network Diversity and Affect Dynamics: The Role of Personality Traits. *PLoS ONE*, **2016**, 11, e0152358	3.7	14
64	Beyond viral. *Communications of the ACM*, **2016**, 59, 36-39	2.5	14
63	Bargaining and Argument-Based Negotiation: Some Preliminary Comparisons. *Lecture Notes in Computer Science*, **2005**, 176-191	0.9	13
62	Detecting reciprocity at a global scale. *Science Advances*, **2018**, 4, eaao5348	14.3	12
61	Analytical reasoning task reveals limits of social learning in networks. *Journal of the Royal Society Interface*, **2014**, 11, 20131211	4.1	12
60	Intentional learning agent architecture. *Autonomous Agents and Multi-Agent Systems*, **2009**, 18, 417-470	2	12

59	Agent-Based Support for Mobile Users Using AgentSpeak(L). *Lecture Notes in Computer Science*, **2004**, 45-60	0.9	12
58	Judgement aggregation in multi-agent argumentation. *Journal of Logic and Computation*, **2017**, 27, 227-259	0.4	11
57	On Interest-Based Negotiation. *Lecture Notes in Computer Science*, **2004**, 383-401	0.9	11
56	Targeted social mobilization in a global manhunt. *PLoS ONE*, **2013**, 8, e74628	3.7	10
55	A Computational Model of Commonsense Moral Decision Making **2018**,		10
54	A formal analysis of interest-based negotiation. *Annals of Mathematics and Artificial Intelligence*, **2009**, 55, 253-276	0.8	9
53	Who Gets Credit for AI-Generated Art?. *IScience*, **2020**, 23, 101515	6.1	9
52	Bad machines corrupt good morals. *Nature Human Behaviour*, **2021**, 5, 679-685	12.8	9
51	Misery loves company: happiness and communication in the city. *EPJ Data Science*, **2015**, 4,	3.4	8
50	An empirical study of interest-based negotiation **2007**,		8
49	Argument-Based Negotiation in a Social Context. *Lecture Notes in Computer Science*, **2006**, 104-121	0.9	8
48	Validating Bayesian truth serum in large-scale online human experiments. *PLoS ONE*, **2017**, 12, e0177385	3.7	8
47	Risk of a feedback loop between climatic warming and human mobility. *Journal of the Royal Society Interface*, **2019**, 16, 20190058	4.1	7
46	Argument-based negotiation in a social context **2005**,		7
45	The universal pathway to innovative urban economies. *Science Advances*, **2020**, 6,	14.3	7
44	Reply to: Life and death decisions of autonomous vehicles. *Nature*, **2020**, 579, E3-E5	50.4	6
43	Bandit strategies in social search: the case of the DARPA red balloon challenge. *EPJ Data Science*, **2016**, 5,	3.4	6
42	MemeSequencer **2018**,		6

41	Practical Strategic Reasoning and Adaptation in Rational Argument-Based Negotiation. *Lecture Notes in Computer Science*, **2006**, 122-137	0.9	6
40	Intelligent machines as social catalysts. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 7555-7557	11.5	5
39	Inferring mechanisms for global constitutional progress. *Nature Human Behaviour*, **2018**, 2, 592-599	12.8	5
38	Interest-Based Negotiation as an Extension of Monotonic Bargaining in 3APL. *Lecture Notes in Computer Science*, **2006**, 327-338	0.9	5
37	A Generative Dialogue System for Arguing about Plans in Situation Calculus. *Lecture Notes in Computer Science*, **2010**, 23-41	0.9	5
36	How safe is safe enough? Psychological mechanisms underlying extreme safety demands for self-driving cars. *Transportation Research Part C: Emerging Technologies*, **2021**, 126, 103069	8.4	5
35	Universal resilience patterns in labor markets. *Nature Communications*, **2021**, 12, 1972	17.4	5
34	Collective iterative allocation: Enabling fast and optimal group decision making. *Web Intelligence and Agent Systems*, **2010**, 8, 1-35		4
33	The Role of Agents in Intelligent Mobile Services. *Lecture Notes in Computer Science*, **2005**, 115-127	0.9	4
32	Machine Thinking, Fast and Slow. *Trends in Cognitive Sciences*, **2020**, 24, 1019-1027	14	4
31	Predicting and containing epidemic risk using friendship networks **2016**,		4
30	Special issue on argumentation in multi-agent systems. *Argument and Computation*, **2016**, 7, 109-112	0.8	3
29	Pareto optimality and strategy-proofness in group argument evaluation. *Journal of Logic and Computation*, **2017**, 27, 2581-2609	0.4	3
28	IntroducingArgument & Computation. *Argument and Computation*, **2010**, 1, 1-5	0.8	3
27	Logical mechanism design. *Knowledge Engineering Review*, **2011**, 26, 61-69	2.1	3
26	BeeMe: Real-Time Internet Control of Situated Human Agents. *Computer*, **2020**, 53, 49-58	1.6	3
25	Arguing and Negotiating in the Presence of Social Influences. *Lecture Notes in Computer Science*, **2005**, 223-235	0.9	3
24	Experimental Assessment of Aggregation Principles in Argumentation-Enabled Collective Intelligence. *ACM Transactions on Internet Technology*, **2017**, 17, 1-21	3.8	2

23	Reasoning about Goal Revelation in Human Negotiation. *IEEE Intelligent Systems*, **2013**, 28, 74-80	4.2	2
22	A Study of an Approach to the Collective Iterative Task Allocation Problem **2007**,		2
21	Managing social influences through argumentation-based negotiation **2006**,		2
20	Supporting Impromptu Coordination Using Automated Negotiation. *Lecture Notes in Computer Science*, **2005**, 217-227	0.9	2
19	Modularity and composite diversity affect the collective gathering of information online. *Nature Communications*, **2021**, 12, 3195	17.4	2
18	The evolution of deception. *Royal Society Open Science*, **2021**, 8, 201032	3.3	2
17	Predicting and containing epidemic risk using on-line friendship networks. *PLoS ONE*, **2019**, 14, e0211765	3.7	1
16	AI reflections in 2019. *Nature Machine Intelligence*, **2020**, 2, 2-9	22.5	1
15	Managing Social Influences Through Argumentation-Based Negotiation **2006**, 107-127		1
14	On the Benefits of Exploiting Hierarchical Goals in Bilateral Automated Negotiation **2007**, 18-30		1
13	Mass Argumentation and the Semantic Web. *SSRN Electronic Journal*,	1	1
12	Developing China□ workforce skill taxonomy reveals extent of labor market polarization. *Humanities and Social Sciences Communications*, **2021**, 8,	2.8	1
11	Algorithmic and human prediction of success in human collaboration from visual features. *Scientific Reports*, **2021**, 11, 2756	4.9	1
10	Design Requirements for a Moral Machine for Autonomous Weapons. *Lecture Notes in Computer Science*, **2018**, 494-506	0.9	1
9	Goal-Directed Automated Negotiation for Supporting Mobile User Coordination. *Lecture Notes in Computer Science*, **2005**, 382-395	0.9	0
8	Argumentation and Persuasion in the Cognitive Coherence Theory: Preliminary Report **2006**, 193-210		0
7	Automation impacts on China□ polarized job market. *Journal of Computational Social Science*,1	3	0
6	The promise and perils of using artificial intelligence to fight corruption. *Nature Machine Intelligence*, **2022**, 4, 418-424	22.5	0

5	Towards Scalable Governance: Sensemaking and Cooperation in the Age of Social Media. *Philosophy and Technology*, **2017**, 30, 161-178	3.6
4	Reply to Claessens et al.: Maybe the Footbridge sacrifice is indeed the only one that sends a negative social signal. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 13205-13206	11.5
3	Exploiting Hierarchical Goals in Bilateral Automated Negotiation: Empirical Study. *Lecture Notes in Business Information Processing*, **2008**, 46-61	0.6
2	Learning as Abductive Deliberations11-20	
1	Machine Behaviour **2022**, 143-166	