Carles Sierra

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7582979/publications.pdf

Version: 2024-02-01

149 papers	6,738 citations	172457 29 h-index	82547 72 g-index
163 all docs	163 docs citations	163 times ranked	2895 citing authors

#	Article	IF	Citations
1	Automated Negotiation: Prospects, Methods and Challenges. Group Decision and Negotiation, 2001, 10, 199-215.	3.3	1,002
2	Negotiation decision functions for autonomous agents. Robotics and Autonomous Systems, 1998, 24, 159-182.	5.1	909
3	Review on Computational Trust and Reputation Models. Artificial Intelligence Review, 2005, 24, 33-60.	15.7	737
4	Agents that reason and negotiate by arguing. Journal of Logic and Computation, 1998, 8, 261-292.	0.8	485
5	REGRET. , 2001, , .		361
6	Reputation and social network analysis in multi-agent systems. , 2002, , .		345
7	The Need for Affective Trust Applied to Trust and Reputation Models. ACM Computing Surveys, 2018, 50, 1-36.	23.0	197
8	On the Formal Specification of Electronic Institutions. Lecture Notes in Computer Science, 2001, , 126-147.	1.3	178
9	A framework for argumentation-based negotiation. Lecture Notes in Computer Science, 1998, , 177-192.	1.3	141
10	ISLANDER. , 2002, , .		135
11	Engineering open environments with electronic institutions. Engineering Applications of Artificial Intelligence, 2005, 18, 191-204.	8.1	130
12	Social ReGreT, a reputation model based on social relations. , 2001, 3, 44-56.		124
13	A service-oriented negotiation model between autonomous agents. Lecture Notes in Computer Science, 1997, , 17-35.	1.3	111
14	DEVISING A TRUST MODEL FOR MULTI-AGENT INTERACTIONS USING CONFIDENCE AND REPUTATION. Applied Artificial Intelligence, 2004, 18, 833-852.	3.2	89
15	Formalizing a Language for Institutions and Norms. Lecture Notes in Computer Science, 2002, , 348-366.	1.3	78
16	A Negotiation Meta Strategy Combining Trade-off and Concession Moves. Autonomous Agents and Multi-Agent Systems, 2006, 12, 163-181.	2.1	67
17	Opening new dimensions for e-Tourism. Virtual Reality, 2007, 11, 75-87.	6.1	66
18	MILORD: The architecture and the management of linguistically expressed uncertainty. International Journal of Intelligent Systems, 1989, 4, 471-501.	5.7	63

#	Article	IF	Citations
19	Agent-Mediated Electronic Commerce. Autonomous Agents and Multi-Agent Systems, 2004, 9, 285-301.	2.1	60
20	A graded BDI agent model to represent and reason about preferences. Artificial Intelligence, 2011, 175, 1468-1478.	5.8	58
21	Communicating open systems. Artificial Intelligence, 2012, 186, 38-94.	5.8	48
22	Constraint rule-based programming of norms for electronic institutions. Autonomous Agents and Multi-Agent Systems, 2009, 18, 186-217.	2.1	47
23	Negotiating using rewards. Artificial Intelligence, 2007, 171, 805-837.	5.8	46
24	Alternatives to Peer Review: Novel Approaches for Research Evaluation. Frontiers in Computational Neuroscience, 2011, 5, 56.	2.1	45
25	Applications and environments for multi-agent systems. Autonomous Agents and Multi-Agent Systems, 2006, 14, 61-85.	2.1	43
26	Electronic Institutions: Future Trends and Challenges. Lecture Notes in Computer Science, 2002, , 14-17.	1.3	38
27	An information-based model for trust. , 2005, , .		36
28	Validation of the medical expert system PNEUMON-IA. Journal of Biomedical Informatics, 1992, 25, 511-526.	0.7	35
29	Engineering Executable Agents using Multi-context Systems. Journal of Logic and Computation, 2002, 12, 413-442.	0.8	34
30	Dynamic Coordination in Fleet Management Systems: Toward Smart Cyber Fleets. IEEE Intelligent Systems, 2014, 29, 70-76.	4.0	34
31	A Multiagent Approach to Qualitative Landmark-Based Navigation. Autonomous Robots, 2003, 15, 129-154.	4.8	33
32	$$hbox {NB}^{3}$$ NB 3 : a multilateral negotiation algorithm for large, non-linear agreement spaces with limited time. Autonomous Agents and Multi-Agent Systems, 2015, 29, 896-942.	2.1	33
33	Trust and honour in information-based agency. , 2006, , .		32
34	Agreement Computing. KI - Kunstliche Intelligenz, 2011, 25, 57-61.	3.2	32
35	Graded BDI Models for Agent Architectures. Lecture Notes in Computer Science, 2005, , 126-143.	1.3	30
36	The LOGIC negotiation model. , 2007, , .		29

#	Article	IF	Citations
37	Operationalisation of norms for usage in electronic institutions. , 2006, , .		28
38	RENOIR: An expert system using fuzzy logic for rheumatology diagnosis. International Journal of Intelligent Systems, 1994, 9, 985-1000.	5.7	27
39	Validation of the Medical Expert System RENOIR. Journal of Biomedical Informatics, 1994, 27, 456-471.	0.7	24
40	Negotiating using rewards. , 2006, , .		24
41	Evolutionary Computing and Negotiating Agents. Lecture Notes in Computer Science, 1999, , 126-150.	1.3	22
42	Map Generation by Cooperative Low-Cost Robots in Structured Unknown Environments. Autonomous Robots, 1998, 5, 53-61.	4.8	21
43	Rapid Prototyping of Large Multi-Agent Systems Through Logic Programming. Annals of Mathematics and Artificial Intelligence, 2004, 41, 135-169.	1.3	20
44	Travel Agents vs. Online Booking: Tackling the Shortcomings of Nowadays Online Tourism Portals. , 2006, , 418-428.		20
45	DipGame: A challenging negotiation testbed. Engineering Applications of Artificial Intelligence, 2011, 24, 1137-1146.	8.1	20
46	Narrowing the Gap Between Humans and Agents in e-Commerce: 3D Electronic Institutions. Lecture Notes in Computer Science, 2005, , 128-137.	1.3	20
47	Self-disclosure decision making based on intimacy and privacy. Information Sciences, 2012, 211, 93-111.	6.9	19
48	Agent-Mediated Electronic Commerce: Scientific and Technological Roadmap. Lecture Notes in Computer Science, 2001, , 1-18.	1.3	19
49	Retrieving and Reusing Game Plays for Robot Soccer. Lecture Notes in Computer Science, 2006, , 47-61.	1.3	18
50	Norm Consistency in Electronic Institutions. Lecture Notes in Computer Science, 2004, , 494-505.	1.3	16
51	Renoir, Pneumon-IA and Terap-IA: three medical applications based on fuzzy logic. Artificial Intelligence in Medicine, 2001, 21, 153-162.	6.5	15
52	E4MAS Through Electronic Institutions. , 2006, , 184-202.		15
53	A multiagent network for peer norm enforcement. Autonomous Agents and Multi-Agent Systems, 2010, 21, 397-424.	2.1	14
54	Deductive coherence and norm adoption. Logic Journal of the IGPL, 2010, 18, 118-156.	1.5	14

#	Article	IF	Citations
55	Trust and matching algorithms for selecting suitable agents. ACM Transactions on Intelligent Systems and Technology, 2013, 5, 1-39.	4.5	14
56	Agreement Technologies: A Computing Perspective. , 2013, , 3-16.		14
57	Merging intelligent agency and the Semantic Web. Knowledge-Based Systems, 2008, 21, 184-191.	7.1	13
58	HANA: A Human-Aware Negotiation Architecture. Decision Support Systems, 2014, 60, 18-28.	5.9	13
59	Designing Institutional Multi-Agent Systems. , 2006, , 84-103.		13
60	D-Brane: a diplomacy playing agent for automated negotiations research. Applied Intelligence, 2017, 47, 158-177.	5.3	12
61	Friends no more. , 2007, , .		11
62	Agent Specification Using Multi-context Systems. Lecture Notes in Computer Science, 2002, , 205-226.	1.3	11
63	Norm-Oriented Programming of Electronic Institutions: A Rule-Based Approach. Lecture Notes in Computer Science, 2006, , 177-193.	1.3	11
64	Descriptive dynamic logic and its application to reflective architectures. Future Generation Computer Systems, 1996, 12, 157-171.	7.5	10
65	GANGSTER: An Automated Negotiator Applying Genetic Algorithms. Studies in Computational Intelligence, 2016, , 225-234.	0.9	10
66	Distributed Norm Enforcement Via Ostracism. , 2007, , 301-315.		10
67	An Integrated Development Environment for Electronic Institutions. , 2005, , 121-142.		9
68	Agent-Mediated Interaction. From Auctions to Negotiation and Argumentation. Lecture Notes in Computer Science, 2002, , 27-48.	1.3	9
69	A Lifecycle for Models of Large Multi-agent Systems. Lecture Notes in Computer Science, 2002, , 297-317.	1.3	9
70	A Methodology for Developing Multiagent Systems as 3D Electronic Institutions. , 2007, , 103-117.		9
71	Models of Interaction as a Grounding for Peer to Peer Knowledge Sharing. Lecture Notes in Computer Science, 2008, , 81-129.	1.3	9
72	Specialisation calculus and communication. International Journal of Approximate Reasoning, 1998, 18, 107-130.	3.3	8

#	Article	IF	Citations
73	Evolving a multiagent system for landmark-based robot navigation. International Journal of Intelligent Systems, 2005, 20, 523-539.	5.7	8
74	Playing the e-business game in 3D virtual worlds. , 2006, , .		8
75	A Temporal Logic of Normative Systems. , 2009, , 69-106.		8
76	g-BDI: A Graded Intensional Agent Model for Practical Reasoning. Lecture Notes in Computer Science, 2009, , 5-20.	1.3	8
77	Developing Virtual Heritage Applications as Normative Multiagent Systems. Lecture Notes in Computer Science, 2011, , 140-154.	1.3	8
78	Competing agents in agent-mediated institutions. Personal and Ubiquitous Computing, 1998, 2, 212-220.	0.6	7
79	Towards next generation coordination infrastructures. Knowledge Engineering Review, 2015, 30, 435-453.	2.6	7
80	Plan Selection for Probabilistic BDI Agents. , 2014, , .		6
81	On the integration of trust with negotiation, argumentation and semantics. Knowledge Engineering Review, 2014, 29, 31-50.	2.6	6
82	Operationalisation of Norms for Electronic Institutions. Lecture Notes in Computer Science, 2006, , 163-176.	1.3	6
83	CBR with Commonsense Reasoning and Structure Mapping: An Application to Mediation. Lecture Notes in Computer Science, 2011, , 378-392.	1.3	6
84	Human Interactions in Electronic Institutions. Lecture Notes in Computer Science, 2013, , 75-89.	1.3	6
85	Incorporating PGMs into a BDI Architecture. Lecture Notes in Computer Science, 2013, , 54-69.	1.3	6
86	Engineering multiuser museum interactives for shared cultural experiences. Engineering Applications of Artificial Intelligence, 2015, 46, 180-195.	8.1	5
87	Using Electronic Institutions to Secure Grid Environments. Lecture Notes in Computer Science, 2006, , 461-475.	1.3	5
88	Probabilistic Planning in AgentSpeak Using the POMDP Framework. Smart Innovation, Systems and Technologies, 2016, , 19-37.	0.6	5
89	The Examination of an Information-Based Approach to Trust. , 2007, , 71-82.		5
90	Mediation = Information Revelation + Analogical Reasoning. Lecture Notes in Computer Science, 2009, , 145-160.	1.3	5

#	Article	IF	Citations
91	A knowledge level analysis of taxonomic domains. International Journal of Intelligent Systems, 1997, 12, 105-135.	5.7	4
92	A language for the execution of graded BDI agents. Logic Journal of the IGPL, 2013, 21, 332-354.	1.5	4
93	Interactive Natural Language Technology for Explainable Artificial Intelligence. Lecture Notes in Computer Science, 2021, , 63-70.	1.3	4
94	The Argumentative Mediator. Lecture Notes in Computer Science, 2017, , 439-454.	1.3	4
95	Handling Fuzzy Information on Milord II 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 625-630.	0.4	3
96	Unifying trust, honour and reliability. , 2008, , .		3
97	Multi-Modal CTL: Completeness, Complexity, and an Application. Studia Logica, 2009, 92, 1-26.	0.6	3
98	A Multi-agent Approach to Energy-Aware Wireless Sensor Networks Organization. Lecture Notes in Computer Science, 2013, , 32-47.	1.3	3
99	Trust-based community assessment. Pattern Recognition Letters, 2015, 67, 49-58.	4.2	3
100	Using Game Description Language for mediated dispute resolution. AI and Society, 2019, 34, 767-784.	4.6	3
101	Modeling Travel Assistant Agents: a graded BDI approach. , 2006, , 415-424.		3
102	Negotiating Using Rewards. , 2006, , 175-192.		3
103	A Coherence Based Framework for Institutional Agents. , 2007, , 287-300.		3
104	Open Knowledge. Lecture Notes in Computer Science, 2008, , 1-18.	1.3	3
105	Understanding Help as a Commons. International Journal of the Commons, 2020, 14, 481-493.	1.4	3
106	Intelligent process control by means of expert systems and machine vision. , 1992, , 185-194.		2
107	Many-valued epistemic states. An application to a reflective architecture: Milord-II. Lecture Notes in Computer Science, 1995, , 440-452.	1.3	2
108	A Trust Model for Simple Negotiation. , 2007, , .		2

#	Article	IF	Citations
109	A Multiagent Architecture for Supervisory and Control System. , 2008, , .		2
110	An Agent Supports Constructivist and Ecological Rationality. , 2009, , .		2
111	CHARMS: A CHARTER MANAGEMENT SYSTEM. AUTOMATING THE INTEGRATION OF ELECTRONIC INSTITUTIONS AND HUMANS. Applied Artificial Intelligence, 2012, 26, 306-330.	3.2	2
112	Automated Negotiation for Package Delivery. , 2012, , .		2
113	WeCurate. , 2013, , .		2
114	Infrastructures to Engineer Open Agent Environments by Means of Electronic Institutions. Lecture Notes in Computer Science, 2015, , 232-254.	1.3	2
115	Trustworthy advice. Knowledge-Based Systems, 2015, 82, 41-59.	7.1	2
116	Empowering Users in Online Open Communities. SN Computer Science, 2021, 2, 1.	3.6	2
117	Information-Based Argumentation. Lecture Notes in Computer Science, 2009, , 130-144.	1.3	2
118	An Agent Model of Business Relationships. Lecture Notes in Computer Science, 2010, , 126-140.	1.3	2
119	When Trust Is Not Enough. Lecture Notes in Business Information Processing, 2011, , 246-257.	1.0	2
120	Weaving a Fabric of Socially Aware Agents. Lecture Notes in Computer Science, 2011, , 263-274.	1.3	2
121	The SADDE Methodology. , 2004, , 195-216.		1
122	Supplier performance in a digital ecosystem. , 2009, , .		1
123	Robust Trust: Prior Knowledge, Time and Context. Lecture Notes in Business Information Processing, 2012, , 1-12.	1.0	1
124	P2P proteomics -- data sharing for enhanced protein identification. Automated Experimentation, 2012, 4, 1.	2.0	1
125	A Syntactic Approach to Revising Epistemic States with Uncertain Inputs. , 2014, , .		1
126	A Survey of Contributions to Fuzzy Logic and Its Applications to Artificial Intelligence at the IIIA. Studies in Fuzziness and Soft Computing, 2015, , 67-78.	0.8	1

#	Article	IF	Citations
127	Open Social Systems. Lecture Notes in Computer Science, 2020, , 132-142.	1.3	1
128	SIMPLE: A Language for the Specification of Protocols, Similar to Natural Language. Lecture Notes in Computer Science, 2016, , 98-118.	1.3	1
129	A Map of Trust between Trading Partners. Lecture Notes in Computer Science, 2008, , 8-17.	1.3	1
130	Multiagent Co-ordination of Wireless Sensor Networks. Lecture Notes in Computer Science, 2013, , 19-32.	1.3	1
131	Agents, Information and Trust. Lecture Notes in Computer Science, 2005, , 643-652.	1.3	1
132	Probabilistic Models for Competence Assessment in Education. Applied Sciences (Switzerland), 2022, 12, 2368.	2.5	1
133	BEST PAPERS FROM EUMAS 2003: THE 1ST EUROPEAN WORKSHOP ON MULTI-AGENT SYSTEMS. Applied Artificial Intelligence, 2004, 18, 775-778.	3.2	0
134	An Agent Architecture for an Uncertain World. , 2008, , .		0
135	An experience-based BDI logic: Motivating shared experiences and intentionality. , 2013, , .		0
136	AI Communications track on agreementÂtechnologies. AI Communications, 2015, 28, 385-385.	1.2	0
137	Control Techniques for Complex Reasoning: The Case of Milord II. , 2002, , 65-97.		0
138	Building Business Relationships with Negotiation. Lecture Notes in Computer Science, 2007, , 119-128.	1.3	0
139	Dual Rationality and Deliberative Agents. , 2010, , 79-92.		0
140	An Agent for Ecological Deliberation. Lecture Notes in Computer Science, 2010, , 220-229.	1.3	0
141	Reputation as Aggregated Opinions. Lecture Notes in Business Information Processing, 2010, , 85-96.	1.0	0
142	Agent Argumentation with Opinions and Advice. , 2011, , 21-34.		0
143	Coalition-Oriented Sensing in Wireless Sensor Networks. Lecture Notes in Computer Science, 2011, , 448-459.	1.3	0
144	Argumentation with Advice. Lecture Notes in Business Information Processing, 2011, , 136-147.	1.0	0

#	Article	IF	Citations
145	A Distributed Architecture for Norm-Aware Agent Societies: A Retrospective. Lecture Notes in Computer Science, 2012, , 102-110.	1.3	0
146	Sharing Online Cultural Experiences: An Argument-Based Approach. Lecture Notes in Computer Science, 2012, , 282-293.	1.3	0
147	Collaborative Judgement. Lecture Notes in Computer Science, 2015, , 631-639.	1.3	0
148	Merging Intelligent Agency and the Semantic Web. , 2007, , 197-210.		0
149	Implicit Training of Virtual Agents. Lecture Notes in Computer Science, 2007, , 356-357.	1.3	0