Rafael H Bordini

List of Publications by Year
in descending order

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105 papers	2,467 citations	394421 19 h-index	345221 36 g-index
112 all docs	112 docs citations	112 times ranked	962 citing authors

#	Article	IF	Citations
1	Engineering Explainable Agents: An Argumentation-Based Approach. Lecture Notes in Computer Science, 2022, , 273-291.	1.3	7
2	Argumentation as a Method for Explainable AI : A Systematic Literature Review. , 2022, , .		2
3	A Chatbot that Uses a Multi-agent Organization to Support Collaborative Learning. Communications in Computer and Information Science, 2021, , 31-38.	0.5	1
4	Dial4JaCa â€“ A Demonstration. Lecture Notes in Computer Science, 2021, , 346-350.	1.3	6
5	Dial4JaCa â€“ A Communication Interface Between Multi-agent Systems andÂChatbots. Lecture Notes in Computer Science, 2021, , 77-88.	1.3	11
6	AÂcomputational model of argumentation schemes for multi-agent systems. Argument and Computation, 2021, , 1-39.	1.1	4
7	Entity Relation Extraction from News Articles in Portuguese for Competitive Intelligence Based on BERT. Lecture Notes in Computer Science, 2021, , 449-464.	1.3	1
8	A Conversational Agent toÂSupport Hospital Bed Allocation. Lecture Notes in Computer Science, 2021, , 3-17.	1.3	7
9	Reasoning in BDI agents using Toulmin's argumentation model. Theoretical Computer Science, 2020, 805, 76-91.	0.9	10
10	Agent programming in the cognitive era. Autonomous Agents and Multi-Agent Systems, 2020, 34, 1.	2.1	24
11	Towards a Computational Model of Argumentation Schemes in Agent-Oriented Programming Languages. , 2020, , .		9
12	A Multi-level Approach to the Formal Semantics of Agent Societies. Lecture Notes in Computer Science, 2020, , 3-17.	1.3	0
13	Exploiting Simulation for MAS Development and Executionâ€”The JaCaMo-Sim Approach. Lecture Notes in Computer Science, 2020, , 42-60.	1.3	6
14	Disaster Response Simulation. Lecture Notes in Computer Science, 2020, , 434-438.	1.3	0
15	Disaster Response Simulation as a Testbed for Multi-Agent Systems. Lecture Notes in Computer Science, 2020, , 67-81.	1.3	0
16	Modelling deception using theory of mind in multi-agent systems. AI Communications, 2019, 32, 287-302.	1.2	20
17	A simulation environment for polymeric nanoparticles based on multi-agent systems. Journal of Molecular Modeling, 2019, 25, 5.	1.8	4
18	Dimensions in programming multi-agent systems. Knowledge Engineering Review, 2019, 34, .	2.6	19

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19	Allocating structured tasks in heterogeneous agent teams. Computational Intelligence, 2019, 35, 124-155.	3.2	6
20	AgentSpeak(ER): Enhanced Encapsulation in Agent Plans. Lecture Notes in Computer Science, 2019, , 34-51.	1.3	2
21	Designing Multi-Agent Systems from Ontology Models. Lecture Notes in Computer Science, 2019, , 76-95.	1.3	4
22	GoDonnie: A Robot Programming Language to Improve Orientation and Mobility Skills in People Who are Visually Impaired. , 2019, , .		2
23	Constrained Coalition Formation among Heterogeneous Agents for the Multi-Agent Programming Contest. , 2019, , .		2
24	Smart RogAgent: Where Agents and Humans Team Up. Lecture Notes in Computer Science, 2019, , 541-549.	1.3	3
25	SMARTâ€“JaCaMo: An Organisation-Based Team for the Multi-Agent Programming Contest. Lecture Notes in Computer Science, 2019, , 72-100.	1.3	3
26	SMART-JaCaMo: an organization-based team for the multi-agent programming contest. Annals of Mathematics and Artificial Intelligence, 2018, 84, 75-93.	1.3	7
27	Argumentation-Based Reasoning in BDI Agents Using Toulmin's Model. , 2018, , .		3
28	A Decentralised Approach to Task Allocation Using Blockchain. Lecture Notes in Computer Science, 2018, , 75-91.	1.3	13
29	Argumentation Schemes in Multi-agent Systems: A Social Perspective. Lecture Notes in Computer Science, 2018, , 92-108.	1.3	3
30	An Algorithm for Allocating Structured Tasks in Multi-Robot Scenarios. Smart Innovation, Systems and Technologies, 2018, , 99-109.	0.6	2
31	Model-driven engineering of multi-agent systems based on ontologies. Applied Ontology, 2017, 12, 157-188.	2.0	10
32	Applying ontologies to the development and execution of Multi-Agent Systems. Web Intelligence, 2017, 15, 291-302.	0.2	8
33	Use of Conceptual Representations Based on Conceptual Spaces Theory Applied to BDI Agents. , 2017, , .		0
34	Argumentation Schemes for Collaborative Debate of Requirement Risks in Software Projects. International Journal of Software Engineering and Knowledge Engineering, 2017, 27, 1613-1635.	0.8	3
35	Predicting Plan Failure by Monitoring Action Sequences and Duration. Advances in Distributed Computing and Artificial Intelligence Journal, 2017, 6, 71-84.	1.5	8
36	Conflicting goals in agent-oriented programming. , 2016, , .		6

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37	Allocating Social Goals Using the Contract Net Protocol in Online Multi-agent Planning. , 2016, , .		3
38	Knowledge Representation for Argumentation in Agent-Oriented Programming Languages. , 2016, , .		13
39	Towards Multi-Level Semantics for Multi-Agent Systems. Electronic Notes in Theoretical Computer Science, 2016, 324, 123-134.	0.9	1
40	Using Preferences over Sources of Information in Argumentation-Based Reasoning. , 2016, , .		10
41	A Namespace Approach for Modularity in BDI Programming Languages. Lecture Notes in Computer Science, 2016, , 117-135.	1.3	7
42	Using Conceptual Spaces for Belief Update in Multi-agent Systems. , 2015, , .		0
43	Towards Integrating Ontologies in Multi-agent Programming Platforms. , 2015, , .		3
44	Integrating Ontologies with Multi-Agent Systems through CArtAgO Artifacts. , 2015, , .		9
45	Towards Practical Argumentation-Based Dialogues in Multi-agent Systems. , 2015, , .		9
46	Distributed fault diagnosis for multiple mobile robots using an agent programming language. , 2015, , .		6
47	Special issue on programming based on actors, agents and decentralized control. Science of Computer Programming, 2015, 98, 117-119.	1.9	1
48	Using Conceptual Spaces for Object Recognition in Multi-agent Systems. Lecture Notes in Computer Science, 2015, , 697-705.	1.3	3
49	CooL-AgentSpeak: Endowing AgentSpeak-DL agents with plan exchange and ontology services. Web Intelligence and Agent Systems, 2014, 12, 83-107.	0.4	9
50	Semantic Representations of Agent Plans and Planning Problem Domains. Lecture Notes in Computer Science, 2014, , 351-366.	1.3	9
51	Unravelling Multi-agent-Oriented Programming. , 2014, , 259-272.		3
52	Analysis of the Use of Events and States as Brute Facts in Modelling of Institutional Facts. Lecture Notes in Computer Science, 2014, , 177-192.	1.3	1
53	Analysis of the Use of Events and States as Brute Facts in Modelling of Institutional Facts. Lecture Notes in Computer Science, 2014, , 177-192.	1.3	1
54	Multi-agent oriented programming with JaCaMo. Science of Computer Programming, 2013, 78, 747-761.	1.9	256

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55	Situated normative infrastructures: the normative object approach. Journal of Logic and Computation, 2013, 23, 397-424.	0.8	3
56	Interaction Patterns in a Multi-Agent Organisation to Support Shared Tasks. Lecture Notes in Computer Science, 2013, , 364-370.	1.3	1
57	Model checking agent programming languages. Automated Software Engineering, 2012, 19, 5-63.	2.9	127
58	An Interface for Agent-Environment Interaction. Lecture Notes in Computer Science, 2012, , 139-158.	1.3	10
59	Developing a Knowledge Management Multi-Agent System Using JaCaMo. Lecture Notes in Computer Science, 2012, , 41-57.	1.3	8
60	Speech-Act Based Communication: Progress in the Formal Semantics and in the Implementation of Multi-agent Oriented Programming Languages. Lecture Notes in Computer Science, 2012, , 111-116.	1.3	1
61	CooL-AgentSpeak: Enhancing AgentSpeak-DL Agents with Plan Exchange and Ontology Services. , 2011, , .		15
62	A normative programming language for multi-agent organisations. Annals of Mathematics and Artificial Intelligence, 2011, 62, 27-53.	1.3	23
63	Guest editorial: Special issue on the European Workshop on Multi-Agent Systems (EUMAS). Autonomous Agents and Multi-Agent Systems, 2010, 20, 305-307.	2.1	0
64	Using agent- and organisation-oriented programming to develop a team of agents for a competitive game. Annals of Mathematics and Artificial Intelligence, 2010, 59, 351-372.	1.3	7
65	A Normative Organisation Programming Language for Organisation Management Infrastructures. Lecture Notes in Computer Science, 2010, , 114-129.	1.3	11
66	From Organisation Specification to Normative Programming in Multi-Agent Organisations. Lecture Notes in Computer Science, 2010, , 117-134.	1.3	18
67	Property-based Slicing for Agent Verification. Journal of Logic and Computation, 2009, 19, 1385-1425.	0.8	26
68	JASDL: A Practical Programming Approach Combining Agent and Semantic Web Technologies. Lecture Notes in Computer Science, 2009, , 91-110.	1.3	37
69	Using Jason and $mathcal{M}$ oise â€‰+â€‰ to Develop a Team of Cowboys. Lecture Notes in Computer Science, 2009, , 238-242.	1.3	4
70	A Distributed Normative Infrastructure for Situated Multi-agent Organisations. Lecture Notes in Computer Science, 2009, , 29-46.	1.3	3
71	Automated Verification of Multi-Agent Programs. , 2008, , .		28
72	Towards Alternative Approaches to Reasoning About Goals. Lecture Notes in Computer Science, 2008, , 104-121.	1.3	12

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73	COMPUTATIONAL LOGICS AND AGENTS: A ROAD MAP OF CURRENT TECHNOLOGIES AND FUTURE TRENDS. Computational Intelligence, 2007, 23, 61-91.	3.2	44
74	Spatially Distributed Normative Infrastructure. Lecture Notes in Computer Science, 2007, , 203-220.	1.3	2
75	Spatially Distributed Normative Objects. Lecture Notes in Computer Science, 2007, , 133-146.	1.3	4
76	Developing a Team of Gold Miners Using Jason. , 2007, , 241-245.		4
77	A Common Semantic Basis for BDI Languages. , 2007, , 124-139.		24
78	Verifying Multi-agent Programs by Model Checking. Autonomous Agents and Multi-Agent Systems, 2006, 12, 239-256.	2.1	118
79	BDI Agent Programming in AgentSpeak Using Jason. Lecture Notes in Computer Science, 2006, , 143-164.	1.3	96
80	Agent-Oriented Programming with Underlying Ontological Reasoning. Lecture Notes in Computer Science, 2006, , 155-170.	1.3	34
81	Automating Belief Revision for AgentSpeak. Lecture Notes in Computer Science, 2006, , 61-77.	1.3	9
82	Programming Declarative Goals Using Plan Patterns. Lecture Notes in Computer Science, 2006, , 123-140.	1.3	16
83	An Agent-Oriented Programming Language for Computing in Context. , 2006, , 61-70.		5
84	Using Jason to Implement a Team of Gold Miners. , 2006, , 304-313.		8
85	Current Issues in Multi-Agent Systems Development. , 2006, , 38-61.		24
86	Jason and the Golden Fleece of Agent-Oriented Programming. Multiagent Systems, Artificial Societies, and Simulated Organizations, 2005, , 3-37.	2.5	100
87	ELMS: An Environment Description Language for Multi-agent Simulation. Lecture Notes in Computer Science, 2005, , 91-108.	1.3	14
88	Verifiable Multi-agent Programs. Lecture Notes in Computer Science, 2004, , 72-89.	1.3	19
89	The MAS-SOC Approach to Multi-agent Based Simulation. Lecture Notes in Computer Science, 2004, , 70-91.	1.3	4
90	Model Checking Rational Agents. IEEE Intelligent Systems, 2004, 19, 46-52.	4.0	48

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91	Proving BDI Properties of Agent-Oriented Programming Languages. Annals of Mathematics and Artificial Intelligence, 2004, 42, 197-226.	1.3	35
92	Extending the Operational Semantics of a BDI Agent-Oriented Programming Language for Introducing Speech-Act Based Communication. Lecture Notes in Computer Science, 2004, , 135-154.	1.3	24
93	Using the BDI Architecture to Produce Autonomous Characters in Virtual Worlds. Lecture Notes in Computer Science, 2003, , 197-201.	1.3	5
94	Model checking agentspeak. , 2003, , .		91
95	A system of exchange values to support social interactions in artificial societies. , 2003, , .		21
96	Model Checking Multi-Agent Programs with CASP. Lecture Notes in Computer Science, 2003, , 110-113.	1.3	25
97	Using BDI agents to improve driver modelling in a commuter scenario. Transportation Research Part C: Emerging Technologies, 2002, 10, 373-398.	7.6	66
98	Proving the Asymmetry Thesis Principles for a BDI Agent-Oriented Programming Language. Electronic Notes in Theoretical Computer Science, 2002, 70, 108-125.	0.9	24
99	Running AgentSpeak(L) Agents on SIM_AGENT. Lecture Notes in Computer Science, 2002, , 158-174.	1.3	17
100	AgentSpeak(XL). , 2002, , .		45
101	An Anthropological Approach to the Discovery of Ontologies in Multi-agent Societies. Lecture Notes in Computer Science, 2002, , 89-109.	1.3	0
102	Extending the Computational Study of Social Norms with a Systematic Model of Emotions. Lecture Notes in Computer Science, 2002, , 108-117.	1.3	3
103	Evolving Populations of Agents with Personalities in the Minority Game. Lecture Notes in Computer Science, 2000, , 166-175.	1.3	1
104	Moral Sentiments in Multi-agent Systems. Lecture Notes in Computer Science, 1999, , 113-131.	1.3	13
105	RV4JaCa â€“ Runtime Verification for Multi-Agent Systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 362, 23-36.	0.8	6