

Jamal Bentahar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133 papers	1,576 citations	21 h-index	30 g-index
147 ext. papers	1,946 ext. citations	3.7 avg, IF	5.36 L-index

#	Paper	IF	Citations
133	Formal verification of group and propagated trust in multi-agent systems. <i>Autonomous Agents and Multi-Agent Systems</i> , 2022 , 36, 1	2	6
132	Federated against the cold: A trust-based federated learning approach to counter the cold start problem in recommendation systems. <i>Information Sciences</i> , 2022 , 601, 189-206	7.7	4
131	Cloud as platform for monetizing complementary data for AI-driven services: A two-sided cooperative game 2021 ,		1
130	Cloud computing as a platform for monetizing data services: A two-sided game business model. <i>IEEE Transactions on Network and Service Management</i> , 2021 , 1-1	4.8	5
129	Multi-dimensional trust for context-aware services computing. <i>Expert Systems With Applications</i> , 2021 , 172, 114592	7.8	2
128	Enabling Secure Trustworthiness Assessment and Privacy Protection in Integrating Data for Trading Person-Specific Information. <i>IEEE Transactions on Engineering Management</i> , 2021 , 68, 149-169	2.6	1
127	Resource-Aware Detection and Defense System against Multi-Type Attacks in the Cloud: Repeated Bayesian Stackelberg Game. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2021 , 18, 605-622	3.9	17
126	Improving Autonomous Vehicles Safety in Snow Weather Using Federated YOLO CNN Learning. <i>Lecture Notes in Computer Science</i> , 2021 , 121-134	0.9	5
125	Demand-Driven Deep Reinforcement Learning for Scalable Fog and Service Placement. <i>IEEE Transactions on Services Computing</i> , 2021 , 1-1	4.8	7
124	Model checking agent-based communities against uncertain group commitments and knowledge. <i>Expert Systems With Applications</i> , 2021 , 177, 114792	7.8	2
123	AI-Based Resource Provisioning of IoE Services in 6G: A Deep Reinforcement Learning Approach. <i>IEEE Transactions on Network and Service Management</i> , 2021 , 18, 3527-3540	4.8	15
122	Model checking intelligent avionics systems for test cases generation using multi-agent systems. <i>Expert Systems With Applications</i> , 2020 , 156, 113458	7.8	6
121	AI, Blockchain, and Vehicular Edge Computing for Smart and Secure IoV: Challenges and Directions. <i>IEEE Internet of Things Magazine</i> , 2020 , 3, 68-73	3.5	33
120	Verification and testing of safety-critical airborne systems: A model-based methodology. <i>Computer Science and Information Systems</i> , 2020 , 17, 271-292	0.8	1
119	Formalizing Group and Propagated Trust in Multi-Agent Systems 2020 ,		8
118	A Game-Based Secure Trading of Big Data and IoT Services: Blockchain as a Two-Sided Market. <i>Lecture Notes in Computer Science</i> , 2020 , 85-100	0.9	5
117	A Trust and Energy-Aware Double Deep Reinforcement Learning Scheduling Strategy for Federated Learning on IoT Devices. <i>Lecture Notes in Computer Science</i> , 2020 , 319-333	0.9	9

116	Toward monetizing personal data: A two-sided market analysis. <i>Future Generation Computer Systems</i> , 2020 , 111, 435-459	7.5	9
115	BigTrustScheduling: Trust-aware big data task scheduling approach in cloud computing environments. <i>Future Generation Computer Systems</i> , 2020 , 110, 1079-1097	7.5	34
114	FScaler: Automatic Resource Scaling of Containers in Fog Clusters Using Reinforcement Learning 2020 ,		5
113	Deep and reinforcement learning for automated task scheduling in large-scale cloud computing systems. <i>Concurrency Computation Practice and Experience</i> , 2020 , e5919	1.4	19
112	Specification and automatic verification of trust-based multi-agent systems. <i>Future Generation Computer Systems</i> , 2020 , 107, 1047-1060	7.5	11
111	A Crowd-Sensing Framework for Allocation of Time-Constrained and Location-Based Tasks. <i>IEEE Transactions on Services Computing</i> , 2020 , 13, 769-785	4.8	30
110	Dynamic formation of service communities in the cloud under distribution and incomplete information settings. <i>Concurrency Computation Practice and Experience</i> , 2020 , 32, e4338	1.4	0
109	Optimal Load Distribution for the Detection of VM-Based DDoS Attacks in the Cloud. <i>IEEE Transactions on Services Computing</i> , 2020 , 13, 114-129	4.8	26
108	Two-stage game theoretical framework for IaaS market share dynamics. <i>Future Generation Computer Systems</i> , 2020 , 102, 173-189	7.5	8
107	An endorsement-based trust bootstrapping approach for newcomer cloud services. <i>Information Sciences</i> , 2020 , 527, 159-175	7.7	16
106	Dependency Network-based Trust Management for Context-Aware Web Services. <i>Procedia Computer Science</i> , 2019 , 151, 583-590	1.6	2
105	Context-aware composite SaaS using feature model. <i>Future Generation Computer Systems</i> , 2019 , 99, 376-390	7.9	5
104	Deep Smart Scheduling: A Deep Learning Approach for Automated Big Data Scheduling Over the Cloud 2019 ,		16
103	A Blockchain-Based Model for Cloud Service Quality Monitoring. <i>IEEE Transactions on Services Computing</i> , 2019 , 1-1	4.8	3
102	On the Detection of Passive Malicious Providers in Cloud Federations. <i>IEEE Communications Letters</i> , 2019 , 23, 64-67	3.8	7
101	From use case maps to executable test procedures: a scenario-based approach. <i>Software and Systems Modeling</i> , 2019 , 18, 1543-1570	1.9	2
100	Model checking real-time conditional commitment logic using transformation. <i>Journal of Systems and Software</i> , 2018 , 138, 189-205	3.3	8
99	. <i>IEEE Transactions on Services Computing</i> , 2018 , 11, 184-201	4.8	53

98	New Insights Towards Developing Recommender Systems. <i>Computer Journal</i> , 2018 , 61, 319-348	1.3	12
97	Cloudchain: A Blockchain-Based Coopetition Differential Game Model for Cloud Computing. <i>Lecture Notes in Computer Science</i> , 2018 , 146-161	0.9	5
96	Multi-Objective Self-Adaptive Composite SaaS Using Feature Model 2018 ,		1
95	Refined game-theoretic approach to improve authenticity of outsourced databases. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2017 , 8, 329-344	3.7	3
94	SMC4AC: A New Symbolic Model Checker for Intelligent Agent Communication. <i>Fundamenta Informaticae</i> , 2017 , 152, 223-271	1	5
93	Specifying and verifying contract-driven service compositions using commitments and model checking. <i>Expert Systems With Applications</i> , 2017 , 74, 151-184	7.8	12
92	I Know You Are Watching Me: Stackelberg-Based Adaptive Intrusion Detection Strategy for Insider Attacks in the Cloud 2017 ,		6
91	Reasoning about Trust and Time in a System of Agents. <i>Procedia Computer Science</i> , 2017 , 109, 632-639	1.6	4
90	Cloud Task Scheduling Based on Swarm Intelligence and Machine Learning 2017 ,		7
89	Verifiable outsourced database in the cloud using game theory 2017 ,		1
88	Privacy-preserving data mashup model for trading person-specific information. <i>Electronic Commerce Research and Applications</i> , 2016 , 17, 19-37	4.6	10
87	CEAP: SVM-based intelligent detection model for clustered vehicular ad hoc networks. <i>Expert Systems With Applications</i> , 2016 , 50, 40-54	7.8	65
86	. <i>IEEE Transactions on Services Computing</i> , 2016 , 9, 968-981	4.8	20
85	A Stackelberg game for distributed formation of business-driven services communities. <i>Expert Systems With Applications</i> , 2016 , 45, 359-372	7.8	29
84	On the soundness, completeness and applicability of the logic of knowledge and communicative commitments in multi-agent systems. <i>Expert Systems With Applications</i> , 2016 , 43, 223-236	7.8	9
83	Monetizing Personal Data: A Two-Sided Market Approach. <i>Procedia Computer Science</i> , 2016 , 83, 472-479	1.6	19
82	Verifying concurrent probabilistic systems using probabilistic-epistemic logic specifications. <i>Applied Intelligence</i> , 2016 , 45, 747-776	4.9	2
81	An Efficient QoS-aware Web Services Selection Using Social Spider Algorithm. <i>Procedia Computer Science</i> , 2016 , 94, 176-182	1.6	14

80	How to Distribute the Detection Load among Virtual Machines to Maximize the Detection of Distributed Attacks in the Cloud? 2016 ,		8
79	Reputation in Communities of Agent-Based Web Services Through Data Mining. <i>Lecture Notes in Computer Science</i> , 2015 , 79-92	0.9	2
78	Formal Specification and Automatic Verification of Conditional Commitments. <i>IEEE Intelligent Systems</i> , 2015 , 30, 36-44	4.2	4
77	Decision making under subjective uncertainty in argumentation-based agent negotiation. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2015 , 6, 307-323	3.7	13
76	Misbehavior Detection Framework for Community-Based Cloud Computing 2015 ,		4
75	Model checking temporal knowledge and commitments in multi-agent systems using reduction. <i>Simulation Modelling Practice and Theory</i> , 2015 , 51, 45-68	3.9	21
74	. <i>IEEE Transactions on Services Computing</i> , 2015 , 8, 586-600	4.8	17
73	Computational logics and verification techniques of multi-agent commitments: survey. <i>Knowledge Engineering Review</i> , 2015 , 30, 564-606	2.1	5
72	A survey on trust and reputation models for Web services: Single, composite, and communities. <i>Decision Support Systems</i> , 2015 , 74, 121-134	5.6	90
71	Modelling Multi-agent Systems with Category Theory. <i>Procedia Computer Science</i> , 2015 , 52, 538-545	1.6	5
70	Real-Time Conditional Commitment Logic. <i>Lecture Notes in Computer Science</i> , 2015 , 547-556	0.9	4
69	Modeling and Forecasting Time Series of Compositional Data: A Generalized Dirichlet Power Steady Model. <i>Lecture Notes in Computer Science</i> , 2015 , 170-185	0.9	2
68	On the interaction between knowledge and social commitments in multi-agent systems. <i>Applied Intelligence</i> , 2014 , 41, 235-259	4.9	12
67	Probabilistic approach for QoS-aware recommender system for trustworthy web service selection. <i>Applied Intelligence</i> , 2014 , 41, 503-524	4.9	29
66	Modeling and verifying choreographed multi-agent-based web service compositions regulated by commitment protocols. <i>Expert Systems With Applications</i> , 2014 , 41, 7478-7494	7.8	21
65	Model checking probabilistic social commitments for intelligent agent communication. <i>Applied Soft Computing Journal</i> , 2014 , 22, 397-409	7.5	8
64	AgentsUncertainty in Argumentation-based Negotiation: Classification and Implementation. <i>Procedia Computer Science</i> , 2014 , 32, 61-68	1.6	7
63	Social Network-Based Framework for Web Services Discovery 2014 ,		7

62	Agent Types and Adaptive Negotiation Strategies in Argumentation-Based Negotiation 2014 ,		2
61	Conditional Commitments. <i>ACM Transactions on Software Engineering and Methodology</i> , 2014 , 24, 1-49	3.3	7
60	Mobile phishing attack for Android platform 2014 ,		4
59	Verifying Multiagent-Based Web Service Compositions Regulated by Commitment Protocols 2014 ,		4
58	Measuring and analyzing agents' uncertainty in argumentation-based negotiation dialogue games. <i>Expert Systems With Applications</i> , 2014 , 41, 306-320	7.8	15
57	Modeling and verifying probabilistic Multi-Agent Systems using knowledge and social commitments. <i>Expert Systems With Applications</i> , 2014 , 41, 6291-6304	7.8	4
56	To compete or cooperate? This is the question in communities of autonomous services. <i>Expert Systems With Applications</i> , 2014 , 41, 4878-4890	7.8	4
55	Reducing model checking commitments for agent communication to model checking ARCTL and GCTL*. <i>Autonomous Agents and Multi-Agent Systems</i> , 2013 , 27, 375-418	2	26
54	Agent-based game-theoretic model for collaborative web services: Decision making analysis. <i>Expert Systems With Applications</i> , 2013 , 40, 3207-3219	7.8	16
53	Model checking epistemic-probabilistic logic using probabilistic interpreted systems. <i>Knowledge-Based Systems</i> , 2013 , 50, 279-295	7.3	10
52	A QoS-Based Trust Approach for Service Selection and Composition via Bayesian Networks 2013 ,		13
51	Efficient Coalition Formation for Web Services 2013 ,		1
50	Reasoning about social commitments in the presence of uncertainty 2013 ,		2
49	Verifying conformance of multi-agent commitment-based protocols. <i>Expert Systems With Applications</i> , 2013 , 40, 122-138	7.8	31
48	Symbolic model checking composite Web services using operational and control behaviors. <i>Expert Systems With Applications</i> , 2013 , 40, 508-522	7.8	32
47	UNCERTAINTY-BASED TRUST ESTIMATION IN A MULTI-VALUED TRUST ENVIRONMENT. <i>International Journal on Artificial Intelligence Tools</i> , 2013 , 22, 1360003	0.9	
46	Social Web Services Research Roadmap. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2013 , 220-233	0.4	2
45	CRM: An efficient trust and reputation model for agent computing. <i>Knowledge-Based Systems</i> , 2012 , 30, 1-16	7.3	42

44	On the Analysis of Satisfaction for Web Services Selection 2012 ,		12
43	2012 ,		21
42	On the analysis of reputation for agent-based web services. <i>Expert Systems With Applications</i> , 2012 , 39, 12438-12450	7.8	8
41	Communicative commitments: Model checking and complexity analysis. <i>Knowledge-Based Systems</i> , 2012 , 35, 21-34	7.3	28
40	Scheduling Reputation Maintenance in Agent-based Communities Using Game Theory. <i>Journal of Software</i> , 2012 , 7,	3	1
39	Symbolic Model Checking Commitment Protocols Using Reduction. <i>Lecture Notes in Computer Science</i> , 2011 , 185-203	0.9	10
38	An Argumentation-Driven Model for Flexible and Efficient Persuasive Negotiation. <i>Group Decision and Negotiation</i> , 2011 , 20, 411-435	2.5	5
37	On the Verification of Behavioral and Probabilistic Web Services Using Transformation 2011 ,		2
36	A Game Theoretic Approach for Analyzing the Efficiency of Web Services in Collaborative Networks 2011 ,		6
35	A New Approach for Quality Enforcement in Communities of Web Services 2011 ,		4
34	Model Checking Epistemic and Probabilistic Properties of Multi-agent Systems. <i>Lecture Notes in Computer Science</i> , 2011 , 68-78	0.9	6
33	Game-Theoretic Analysis of a Web Services Collaborative Mechanism. <i>Lecture Notes in Computer Science</i> , 2011 , 549-556	0.9	3
32	Analyzing the Relationships between some Parameters of Web Services Reputation 2010 ,		11
31	A managerial community of Web Services for management of communities of Web Services 2010 ,		3
30	Separating Operational and Control Behaviors: A New Approach to Web Services Modeling. <i>IEEE Internet Computing</i> , 2010 , 14, 68-76	2.4	11
29	Analyzing Communities vs. Single Agent-Based Web Services: Trust Perspectives 2010 ,		8
28	Using argumentation to model and deploy agent-based applications. <i>Knowledge-Based Systems</i> , 2010 , 23, 677-692	7.3	20
27	A taxonomy of argumentation models used for knowledge representation. <i>Artificial Intelligence Review</i> , 2010 , 33, 211-259	9.7	39

26	Analyzing Communities of Web Services Using Incentives. <i>International Journal of Web Services Research</i> , 2010 , 7, 30-51	0.8	22
25	Modeling and Verifying Agent-Based Communities of Web Services. <i>Lecture Notes in Computer Science</i> , 2010 , 418-427	0.9	6
24	Verifiable Semantic Model for Agent Interactions Using Social Commitments. <i>Lecture Notes in Computer Science</i> , 2010 , 128-152	0.9	12
23	Modeling and Verifying Business Interactions via Commitments and Dialogue Actions. <i>Lecture Notes in Computer Science</i> , 2010 , 11-21	0.9	4
22	Model checking communicative agent-based systems. <i>Knowledge-Based Systems</i> , 2009 , 22, 142-159	7.3	19
21	Social Network-Based Trust for Agent-Based Services 2009 ,		7
20	On the Meaning of SysML Activity Diagrams 2009 ,		12
19	A Multi-agent-based Approach to Improve Intrusion Detection Systems False Alarm Ratio by Using HoneyPot 2009 ,		2
18	An Approach to Engineer Communities of Web Services. <i>International Journal of E-Business Research</i> , 2009 , 5, 1-21	0.7	32
17	Strategic Agent Communication: An Argumentation-Driven Approach. <i>Lecture Notes in Computer Science</i> , 2009 , 233-250	0.9	3
16	Using Trustworthy and Referee Agents to Secure Multi-Agent Systems 2008 ,		3
15	Reputation of Communities of Web Services - Preliminary Investigation 2008 ,		26
14	An approach to comprehensive trust management in multi-agent systems with credibility 2008 ,		3
13	Agent-based communities of web services: an argumentation-driven approach. <i>Service Oriented Computing and Applications</i> , 2008 , 2, 219-238	1.6	22
12	Computational logic-based agents. <i>Autonomous Agents and Multi-Agent Systems</i> , 2008 , 16, 211-213	2	2
11	An Argumentation Framework for Communities of Web Services. <i>IEEE Intelligent Systems</i> , 2007 , 22, 75-83	4.2	37
10	A security framework for agent-based systems. <i>International Journal of Web Information Systems</i> , 2007 , 3, 341-362	0.9	3
9	Using Argumentative Agents to Manage Communities of Web Services 2007 ,		11

8	A New Logical Semantics for Agent Communication 2006 , 151-170		8
7	Specification and Complexity of Strategic-Based Reasoning Using Argumentation 2006 , 142-160		8
6	A Tableau Method for Verifying Dialogue Game Protocols for Agent Communication. <i>Lecture Notes in Computer Science</i> , 2006 , 223-244	0.9	2
5	Specifying and Implementing a Persuasion Dialogue Game Using Commitments and Arguments. <i>Lecture Notes in Computer Science</i> , 2005 , 130-148	0.9	15
4	A Computational Model for Conversation Policies for Agent Communication. <i>Lecture Notes in Computer Science</i> , 2005 , 178-195	0.9	9
3	Commitment and Argument Network: A New Formalism for Agent Communication. <i>Lecture Notes in Computer Science</i> , 2004 , 146-165	0.9	19
2	Web Services Communities 333-343		3
1	Trust-driven reinforcement selection strategy for federated learning on IoT devices. <i>Computing (Vienna/New York)</i> , 1	2.2	2