Athman Bouguettaya

List of Publications by Year
in descending order

197 papers	5,240 citations	126858 33 h-index	118793 62 g-index
208 all docs	208 docs citations	208 times ranked	2945 citing authors

#	Article	IF	Citations
1	Composing Web services on the Semantic Web. VLDB Journal, 2003, 12, 333-351.	2.7	446
2	Efficient agglomerative hierarchical clustering. Expert Systems With Applications, 2015, 42, 2785-2797.	4.4	273
3	Deploying and managing Web services: issues, solutions, and directions. VLDB Journal, 2008, 17, 537-572.	2.7	271
4	Business-to-business interactions: issues and enabling technologies. VLDB Journal, 2003, 12, 59-85.	2.7	253
5	RATEWeb: Reputation Assessment for Trust Establishment among Web services. VLDB Journal, 2009, 18, 885-911.	2.7	222
6	A service computing manifesto. Communications of the ACM, 2017, 60, 64-72.	3.3	180
7	Reputation Bootstrapping for Trust Establishment among Web Services. IEEE Internet Computing, 2009, 13, 40-47.	3.2	141
8	Computing Service Skyline from Uncertain QoWS. IEEE Transactions on Services Computing, 2010, 3, 16-29.	3.2	120
9	A multilevel composability model for semantic Web services. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 954-968.	4.0	119
10	Infrastructure for e-government Web services. IEEE Internet Computing, 2003, 7, 58-65.	3.2	109
11	Genetic Algorithm Based QoS-Aware Service Compositions in Cloud Computing. Lecture Notes in Computer Science, 2011, , 321-334.	1.0	88
12	Long-Term QoS-Aware Cloud Service Composition Using Multivariate Time Series Analysis. IEEE Transactions on Services Computing, 2016, 9, 382-393.	3.2	82
13	Efficient Service Skyline Computation for Composite Service Selection. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 776-789.	4.0	79
14	Privacy Protection for Wireless Medical Sensor Data. IEEE Transactions on Dependable and Secure Computing, 2016, 13, 369-380.	3.7	70
15	A Dynamic Foundational Architecture for Semantic Web Services. Distributed and Parallel Databases, 2005, 17, 179-206.	1.0	62
16	Framework for Web service query algebra and optimization. ACM Transactions on the Web, 2008, 2, 1-35.	2.0	58
17	Web Service Classification Using Support Vector Machine. , 2010, , .		58
18	QoS Analysis for Web Service Compositions with Complex Structures. IEEE Transactions on Services Computing, 2013, 6, 373-386.	3.2	58

#	Article	IF	Citations
19	Adaptive Service Composition Based on Reinforcement Learning. Lecture Notes in Computer Science, 2010, , 92-107.	1.0	57
20	Reputation Propagation in Composite Services. , 2009, , .		53
21	Preserving privacy in web services. , 2002, , .		52
22	An Efficient Near-Duplicate Video Shot Detection Method Using Shot-Based Interest Points. IEEE Transactions on Multimedia, 2009, 11, 879-891.	5.2	48
23	Rater Credibility Assessment in Web Services Interactions. World Wide Web, 2009, 12, 3-25.	2.7	46
24	Metaheuristic Optimization of Large-Scale QoS-aware Service Compositions. , 2010, , .		44
25	Multi-attribute optimization in service selection. World Wide Web, 2012, 15, 1-31.	2.7	44
26	CCCloud: Context-Aware and Credible Cloud Service Selection Based on Subjective Assessment and Objective Assessment. IEEE Transactions on Services Computing, 2015, 8, 369-383.	3.2	43
27	Clustering Big Spatiotemporal-Interval Data. IEEE Transactions on Big Data, 2016, 2, 190-203.	4.4	43
28	Service Mining on the Web. IEEE Transactions on Services Computing, 2009, 2, 65-78.	3.2	41
29	Evaluating Rater Credibility for Reputation Assessment of Web Services. Lecture Notes in Computer Science, 2007, , 38-49.	1.0	41
30	On-line clustering. IEEE Transactions on Knowledge and Data Engineering, 1996, 8, 333-339.	4.0	39
31	QoS-Aware Cloud Service Composition Based on Economic Models. Lecture Notes in Computer Science, 2012, , 111-126.	1.0	39
32	Privacy-Preserving Association Rule Mining in Cloud Computing. , 2015, , .		39
33	Web Services Reputation Assessment Using a Hidden Markov Model. Lecture Notes in Computer Science, 2009, , 576-591.	1.0	39
34	Computing Service Skylines over Sets of Services. , 2010, , .		38
35	Building enterprise mashups. Future Generation Computer Systems, 2011, 27, 637-642.	4.9	38
36	Ev-LCS: A System for the Evolution of Long-Term Composed Services. IEEE Transactions on Services Computing, 2013, 6, 102-115.	3.2	38

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37	End-to-End Service Support for Mashups. IEEE Transactions on Services Computing, 2010, 3, 250-263.	3.2	37
38	Metaheuristic Optimization for Long-term IaaS Service Composition. IEEE Transactions on Services Computing, 2018, 11, 131-143.	3.2	36
39	QoS Analysis for Web Service Compositions Based on Probabilistic QoS. Lecture Notes in Computer Science, 2011, , 47-61.	1.0	34
40	Class library support for workflow environments and applications. IEEE Transactions on Computers, 1997, 46, 673-686.	2.4	33
41	Semantic based aspect-oriented programming for context-aware Web service composition. Information Systems, 2011, 36, 551-564.	2.4	32
42	Online Reliability Prediction via Motifs-Based Dynamic Bayesian Networks for Service-Oriented Systems. IEEE Transactions on Software Engineering, 2017, 43, 556-579.	4.3	31
43	Supporting dynamic interactions among Web-based information sources. IEEE Transactions on Knowledge and Data Engineering, 2000, 12, 779-801.	4.0	29
44	Query Processing and Optimization on the Web. Distributed and Parallel Databases, 2004, 15, 187-218.	1.0	29
45	Crowdsourced Coverage as a Service: Two-Level Composition of Sensor Cloud Services. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1384-1397.	4.0	29
46	Meta-Path Based Service Recommendation in Heterogeneous Information Networks. Lecture Notes in Computer Science, 2016, , 371-386.	1.0	28
47	Integrating Reinforcement Learning with Multi-Agent Techniques for Adaptive Service Composition. ACM Transactions on Autonomous and Adaptive Systems, 2017, 12, 1-42.	0.4	27
48	QoS Analysis for Web Service Composition. , 2009, , .		26
49	A two-phase framework for quality-aware Web service selection. Service Oriented Computing and Applications, 2010, 4, 63-79.	1.3	26
50	Spatio-temporal Composition of Sensor Cloud Services. , 2014, , .		26
51	Preference recommendation for personalized search. Knowledge-Based Systems, 2016, 100, 124-136.	4.0	25
52	Resilient composition of drone services for delivery. Future Generation Computer Systems, 2021, 115, 335-350.	4.9	25
53	Adaptive data access in broadcast-based wireless environments. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 326-338.	4.0	24
54	Efficient change management in long-term composed services. Service Oriented Computing and Applications, 2011, 5, 87-103.	1.3	24

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55	Cloud Data Management. , 2014, , .		24
56	Trusting the Social Web: issues and challenges. World Wide Web, 2015, 18, 1-7.	2.7	24
57	Sentiment Analysis as a Service: A Social Media Based Sentiment Analysis Framework. , 2017, , .		24
58	Supporting Dynamic Changes in Web Service Environments. Lecture Notes in Computer Science, 2003, , 319-334.	1.0	24
59	Exploiting Heterogeneous Information for Tag Recommendation in API Management. , 2016, , .		22
60	An internet of things service roadmap. Communications of the ACM, 2021, 64, 86-95.	3.3	22
61	Managing Top-down Changes in Service-Oriented Enterprises. , 2007, , .		21
62	Reputation Management for Composite Services in Service-Oriented Systems. International Journal of Web Services Research, 2011, 8, 29-52.	0.5	21
63	Adaptive and Dynamic Service Composition via Multi-agent Reinforcement Learning. , 2014, , .		20
64	Practical privacy-preserving user profile matching in social networks. , 2016, , .		20
65	Crowdsourcing Energy as a Service. Lecture Notes in Computer Science, 2018, , 342-351.	1.0	19
66	Composing Energy Services in a Crowdsourced IoT Environment. IEEE Transactions on Services Computing, 2022, 15, 1280-1294.	3.2	19
67	Web Service Selection with Incomplete or Inconsistent User Preferences. Lecture Notes in Computer Science, 2009, , 83-98.	1.0	19
68	Swarm-based Drone-as-a-Service (SDaaS) for Delivery. , 2020, , .		19
69	Trust Management for Service-Oriented Environments. , 2009, , .		18
70	Adaptive Subspace Symbolization for Content-Based Video Detection. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 1372-1387.	4.0	18
71	Service-Based Drone Delivery. , 2021, , .		18
72	A Web Service Mining Framework. , 2007, , .		17

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73	Foundations for Efficient Web Service Selection. , 2010, , .		17
74	A Fuzzy Trust Management Framework for Service Web. , 2010, , .		17
75	Composing Drone-as-a-Service (DaaS) for Delivery. , 2019, , .		17
76	Privacy-Preserving User Profile Matching in Social Networks. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 1572-1585.	4.0	17
77	Predicting Dynamic Requests Behavior in Long-Term IaaS Service Composition. , 2015, , .		16
78	Service Composition for the Semantic Web. , 2011, , .		15
79	A Deep Reinforcement Learning Approach for Composing Moving IoT Services. IEEE Transactions on Services Computing, 2022, 15, 2538-2550.	3.2	15
80	Formation-based Selection of Drone Swarm Services. , 2020, , .		15
81	WebBIS: AN INFRASTRUCTURE FOR AGILE INTEGRATION OF WEB SERVICES. International Journal of Cooperative Information Systems, 2004, 13, 121-158.	0.6	14
82	Process-Oriented Enterprise Mashups. , 2009, , .		14
83	Semantic Support for Adaptive Long Term Composed Services. , 2010, , .		14
84	Economic Model-Driven Cloud Service Composition. ACM Transactions on Internet Technology, 2014, 14, 1-19.	3.0	14
85	Context-Aware Cloud Service Selection Based on Comparison and Aggregation of User Subjective Assessment and Objective Performance Assessment. , 2014, , .		14
86	Joint Modeling Users, Services, Mashups, and Topics for Service Recommendation. , 2016, , .		14
87	Package Delivery Using Autonomous Drones in Skyways. , 2021, , .		14
88	A Conflict Detection Framework for IoT Services in Multi-resident Smart Homes. , 2020, , .		14
89	Fluid Composition of Intermittent IoT Energy Services. , 2020, , .		14
90	Robust Composition of Drone Delivery Services under Uncertainty. , 2021, , .		14

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91	A behaviour-based trust model for service web. , 2010, , .		13
92	QoS-Aware Cloud Service Composition Using Time Series. Lecture Notes in Computer Science, 2013, , 9-22.	1.0	13
93	A Game-Theoretic Drone-as-a-Service Composition for Delivery. , 2020, , .		13
94	Automatically Building Service-Based Systems With Function Relaxation. IEEE Transactions on Cybernetics, 2023, 53, 2703-2716.	6.2	13
95	A Scalable Middleware for Web Databases. Journal of Database Management, 2006, 17, 20-46.	1.0	12
96	Trust in Social-Sensor Cloud Service. , 2018, , .		12
97	Crowdsharing Wireless Energy Services. , 2020, , .		12
98	Incentive-Based Selection and Composition of IoT Energy Services. , 2020, , .		12
99	Fine-grained Conflict Detection of IoT Services. , 2020, , .		11
100	Qualitative Economic Model for Long-Term IaaS Composition. Lecture Notes in Computer Science, 2016, , 317-332.	1.0	11
101	Reliability Model for Incentive-Driven IoT Energy Services. , 2020, , .		11
102	Trust Management in Cloud Services. , 2014, , .		10
103	Discovering Spatio-Temporal Relationships among IoT Services. , 2018, , .		10
104	Convenience-Based Periodic Composition of IoT Services. Lecture Notes in Computer Science, 2018, , 660-678.	1.0	10
105	Web Application Resource Requirements Estimation based on the Workload Latent Features. IEEE Transactions on Services Computing, 2019, , 1-1.	3.2	10
106	Privacy-Preserving QoS Forecasting in Mobile Edge Environments. IEEE Transactions on Services Computing, 2022, 15, 1103-1117.	3.2	10
107	A Reputation-Based Approach to Preserving Privacy in Web Services. Lecture Notes in Computer Science, 2003, , 91-103.	1.0	10
108	Spatio-Temporal Composition of Crowdsourced Services. Lecture Notes in Computer Science, 2015, , 373-382.	1.0	10

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109	Proactive Composition of Mobile IoT Energy Services. , 2021, , .		10
110	Fairness-Aware Crowdsourcing of IoT Energy Services. Lecture Notes in Computer Science, 2021, , 351-367.	1.0	10
111	Ontological Approach for Information Discovery in Internet Databases. Distributed and Parallel Databases, 2000, 8, 367-392.	1.0	9
112	Guest Editorial: Special Section on Query Models and Efficient Selection of Web Services. IEEE Transactions on Services Computing, 2010, 3, 161-162.	3.2	9
113	Service-Centric Framework for a Digital Government Application. IEEE Transactions on Services Computing, 2011, 4, 3-16.	3.2	9
114	Efficient subsequence matching over large video databases. VLDB Journal, 2012, 21, 489-508.	2.7	9
115	Failure-Proof Spatio-temporal Composition of Sensor Cloud Services. Lecture Notes in Computer Science, 2014, , 368-377.	1.0	9
116	Service Mining for Internet of Things. Lecture Notes in Computer Science, 2016, , 566-574.	1.0	9
117	Social-Sensor Cloud Service Selection. , 2017, , .		9
118	Drone-as-a-Service Composition Under Uncertainty. IEEE Transactions on Services Computing, 2022, 15, 2685-2698.	3.2	9
119	Constraint-Aware Drone-as-a-Service Composition. Lecture Notes in Computer Science, 2019, , 369-382.	1.0	9
120	Provider-centric Allocation of Drone Swarm Services. , 2021, , .		9
121	Wireless IoT Energy Sharing Platform. , 2022, , .		9
122	A Trust Ontology for Semantic Services. , 2010, , .		8
123	A Trust Prediction Model for Service Web. , 2011, , .		8
124	A Deep Learning Spatiotemporal Prediction Framework for Mobile Crowdsourced Services. Mobile Networks and Applications, 2019, 24, 1120-1133.	2.2	8
125	Online Reliability Time Series Prediction for Service-Oriented System of Systems. Lecture Notes in Computer Science, 2013, , 421-428.	1.0	8
126	Elastic Composition of Crowdsourced IoT Energy Services. , 2020, , .		8

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127	Conflict Detection in IoT-based Smart Homes. , 2021, , .		8
128	Constraint-based Formation of Drone Swarms. , 2022, , .		8
129	On building a hyperdistributed database. Information Systems, 1995, 20, 557-577.	2.4	7
130	Social-Sensor Cloud Service for Scene Reconstruction. Lecture Notes in Computer Science, 2017, , 37-52.	1.0	7
131	Economic Models for Managing Cloud Services. , 2018, , .		7
132	A CP-Net Based Qualitative Composition Approach for an IaaS Provider. Lecture Notes in Computer Science, 2018, , 151-166.	1.0	7
133	Incentive-Based Crowdsourcing of Hotspot Services. ACM Transactions on Internet Technology, 2019, 19, 1-24.	3.0	7
134	WebDG â€" A Platform for E-Government Web Services. Lecture Notes in Computer Science, 2004, , 553-565.	1.0	7
135	Top-k Dynamic Service Composition in Skyway Networks. Lecture Notes in Computer Science, 2021, , 479-495.	1.0	7
136	Using a hybrid method for accessing broadcast data. , 2005, , .		6
137	Reacting to functional changes in service-oriented enterprises. , 2007, , .		6
138	Supporting Bioinformatic Experiments with a Service Query Engine. , 2009, , .		6
139	Web Service management system for bioinformatics research: a case study. Service Oriented Computing and Applications, 2011, 5, 1-15.	1.3	6
140	Crowdsourcing of Sensor Cloud Services. , 2018, , .		6
141	Long-Term IaaS Provider Selection Using Short-Term Trial Experience. , 2019, , .		6
142	Just-in-Time Memoryless Trust for Crowdsourced IoT Services. , 2020, , .		6
143	Signature-based Selection of IaaS Cloud Services. , 2020, , .		6
144	Formulating Cost-Effective Data Distribution Strategies Online for Edge Cache Systems. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 4270-4281.	4.0	6

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145	Database technology on the web. IEEE Internet Computing, 2002, 6, 31-32.	3.2	5
146	SemWebDL: A privacy-preserving Semantic Web infrastructure for digital libraries. International Journal on Digital Libraries, 2004, 4, 171-184.	1.1	5
147	Service-based analysis of biological pathways. BMC Bioinformatics, 2009, 10, S6.	1.2	5
148	Subjective Evaluation of Market-Driven Cloud Services. , 2017, , .		5
149	Social-Sensor Composition for Scene Analysis. Lecture Notes in Computer Science, 2018, , 352-362.	1.0	5
150	PRESERVING TRADE SECRETS BETWEEN COMPETITORS IN B2B INTERACTIONS. International Journal of Cooperative Information Systems, 2005, 14, 265-297.	0.6	4
151	Semantic Web Services for Web Databases. , 2011, , .		4
152	Probabilistic Qualitative Preference Matching in Long-Term IaaS Composition. Lecture Notes in Computer Science, 2017, , 256-271.	1.0	4
153	Stance and Credibility Based Trust in Social-Sensor Cloud Services. Lecture Notes in Computer Science, 2018, , 178-189.	1.0	4
154	Discovering Pathways of Service Oriented Biological Processes. Lecture Notes in Computer Science, 2008, , 189-205.	1.0	4
155	Adaptive Priority-based Conflict Resolution of IoT Services. , 2021, , .		4
156	Resource location in large scale heterogeneous and autonomous databases. Journal of Intelligent Information Systems, 1995, 5, 145-173.	2.8	3
157	WebFindIt: an architecture and system for querying Web databases. IEEE Internet Computing, 1999, 3, 30-41.	3.2	3
158	World Wide Databaseâ€"integrating the Web, CORBA and databases. SIGMOD Record, 1999, 28, 594-596.	0.7	3
159	A Subspace Symbolization Approach to Content-Based Video Search. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	3
160	Semantic Access to Multichannel M-Services. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 259-272.	4.0	3
161	Logic-based verification for Web services composition with TLA. , 2009, , .		3
162	Context-sensitive user interfaces for semantic services. ACM Transactions on Internet Technology, 2012, 11, 1-27.	3.0	3

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163	Guest Editorial: Introduction to the Special Section on Sensor Data Computing as a Service in Internet of Things. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 311-313.	3.2	3
164	An Efficient Method to Find the Optimal Social Trust Path in Contextual Social Graphs. Lecture Notes in Computer Science, 2015, , 399-417.	1.0	3
165	Temporal Pattern Based QoS Prediction. Lecture Notes in Computer Science, 2016, , 223-237.	1.0	3
166	Event-based Detection of Changes in IaaS Performance Signatures. , 2020, , .		3
167	DIA: A Web Services-based Infrastructure for Semantic Integration in Geoinformatics. , 2007, , .		2
168	Semantic Weaving for Context-Aware Web Service Composition. Lecture Notes in Computer Science, 2009, , 101-114.	1.0	2
169	Guest Editorial: Special Issue on Clouds for Social Computing. IEEE Transactions on Services Computing, 2014, 7, 329-332.	3.2	2
170	Confidence-Aware Reputation Bootstrapping in Composite Service Environments. Lecture Notes in Computer Science, 2017, , 158-174.	1.0	2
171	Mobile Crowdsourced Sensors Selection for Journey Services. Lecture Notes in Computer Science, 2018, , 463-477.	1.0	2
172	Ontology Support for Managing Top-Down Changes in Composite Services. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 760-777.	0.2	2
173	QoS-Aware Service Compositions in Cloud Computing. , 2014, , 119-133.		2
174	Personalized API Recommendation via Implicit Preference Modeling. Lecture Notes in Computer Science, 2016, , 646-653.	1.0	2
175	Heuristics Based Mosaic of Social-Sensor Services for Scene Reconstruction. Lecture Notes in Computer Science, 2020, , 503-515.	1.0	2
176	Service Computing for the Service Economy. Lecture Notes in Computer Science, 2008, , 3-4.	1.0	2
177	Efficient Access to Composite M-services. , 2009, , .		1
178	Semantic-Based Access to Composite Mobile Services. International Journal of Web Services Research, 2011, 8, 70-100.	0.5	1
179	Optimizing Long-term IaaS Service Composition. Lecture Notes in Computer Science, 2015, , 333-342.	1.0	1
180	Using Financial Options for Pricing of IaaS Cloud Resources. , 2017, , .		1

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181	Layer-based Composite Reputation Bootstrapping. ACM Transactions on Internet Technology, 2022, 22, 1-28.	3.0	1
182	Service Trust Management for E-Government Applications. , 2014, , 339-362.		1
183	A Smart User Interface for Service-Oriented Web. Lecture Notes in Computer Science, 2011, , 318-330.	1.0	1
184	Long-Term Qualitative IaaS Composition. , 2018, , 77-110.		1
185	Blockchain-based Trust Information Storage in Crowdsourced IoT Services. , 2021, , .		1
186	Bio-Sense: A System for Supporting Sharing and Exploration in Bioinformatics Using Semantic Web Services. , 2008, , .		0
187	Sequential Learning-based IaaS Composition. ACM Transactions on the Web, 2021, 15, 1-37.	2.0	0
188	WebFINDIT. Advances in Database Research Series, 2009, , 225-254.	0.1	0
189	Web Service Mining. , 2010, , .		0
190	Managing Web Services: An Application in Bioinformatics. Lecture Notes in Computer Science, 2010, , 704-705.	1.0	0
191	WS-Query â€" A Framework to Efficiently Query Semantic Web Service. Advanced Information and Knowledge Processing, 2010, , 47-86.	0.2	0
192	SCML: A Change Management Language for Adaptive Long Term Composed Services. , 2014, , 225-252.		0
193	Exploring Service Networks of Biological Processes on the Web. , 2014, , 279-309.		0
194	Long-Term IaaS Composition for Deterministic Requests. , 2018, , 33-52.		0
195	Long-Term IaaS Composition for Stochastic Requests. , 2018, , 53-76.		0
196	Engineering Issues for the Web 2.0. Lecture Notes in Computer Science, 2008, , 183-184.	1.0	0
197	A Scalable Middleware for Web Databases. , 0, , 252-267.		0