Shuiguang Deng

List of Publications by Year
in descending order

189 papers	5,113 citations	134610 34 h-index	129628 63 g-index
191 all docs	191 docs citations	191 times ranked	4253 citing authors

#	ARTICLE	IF	CITATIONS
1	Incentive-Driven Proactive Application Deployment and Pricing on Distributed Edges. IEEE Transactions on Mobile Computing, 2023, 22, 951-967.	3.9	4
2	Fraud-Agents Detection in Online Microfinance: A Large-Scale Empirical Study. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 1169-1185.	3.7	5
3	CTL-Based Adaptive Service Composition in Edge Networks. IEEE Transactions on Services Computing, 2023, 16, 1051-1065.	3.2	4
4	Distributed Redundant Placement for Microservice-based Applications at the Edge. IEEE Transactions on Services Computing, 2022, 15, 1732-1745.	3.2	50
5	MultiScaler: A Multi-Loop Auto-Scaling Approach for Cloud-Based Applications. IEEE Transactions on Cloud Computing, 2022, 10, 2769-2786.	3.1	12
6	ProDiff: A Process Difference Detection Method Based on Hierarchical Decomposition. IEEE Transactions on Services Computing, 2022, 15, 513-526.	3.2	1
7	DPoS: Decentralized, Privacy-Preserving, and Low-Complexity Online Slicing for Multi-Tenant Networks. IEEE Transactions on Mobile Computing, 2022, 21, 4296-4309.	3.9	16
8	Sequential Recommendation Based on Multivariate Hawkes Process Embedding With Attention. IEEE Transactions on Cybernetics, 2022, 52, 11893-11905.	6.2	4
9	A Blockchain-Based Mutual Authentication Scheme for Collaborative Edge Computing. IEEE Transactions on Computational Social Systems, 2022, 9, 146-158.	3.2	31
10	Quantitative Assessment of Service Pattern: Framework, Language, and Metrics. IEEE Transactions on Services Computing, 2022, 15, 3457-3470.	3.2	2
11	Energy-effective artificial internet-of-things application deployment in edge-cloud systems. Peer-to-Peer Networking and Applications, 2022, 15, 1029-1044.	2.6	8
12	Dependent Function Embedding for Distributed Serverless Edge Computing. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 2346-2357.	4.0	24
13	Mobility-Aware Offloading and Resource Allocation for Distributed Services Collaboration. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 2428-2443.	4.0	15
14	A Service Pattern-Oriented Computing Architecture for Service Ecosystems. IEEE Internet Computing, 2022, 26, 51-59.	3.2	4
15	Genomic insights into the evolution of Echinochloa species as weed and orphan crop. Nature Communications, 2022, 13, 689.	5.8	26
16	Towards automatic detection and prioritization of pre-logging overhead: a case study of hadoop ecosystem. Automated Software Engineering, 2022, 29, 1.	2.2	1
17	Pyramid: Enabling Hierarchical Neural Networks with Edge Computing. , 2022, , .		42
18	Characterizing and synthesizing the workflow structure of microservices in ByteDance Cloud. Journal of Software: Evolution and Process, 2022, 34, .	1.2	2

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19	Reinforcement learning for cost-effective IoT service caching at the edge. Journal of Parallel and Distributed Computing, 2022, 168, 120-136.	2.7	6
20	Covering-Based Web Service Quality Prediction via Neighborhood-Aware Matrix Factorization. IEEE Transactions on Services Computing, 2021, 14, 1333-1344.	3.2	111
21	A Multi-Scale Activity Transition Network for Data Translation in EEG Signals Decoding. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1699-1709.	1.9	11
22	Efficient Query of Quality Correlation for Service Composition. IEEE Transactions on Services Computing, 2021, 14, 695-709.	3.2	81
23	CAME: Content- and Context-Aware Music Embedding for Recommendation. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1375-1388.	7.2	33
24	MUSE: A Multi-Tierd and SLA-Driven Deduplication Framework for Cloud Storage Systems. IEEE Transactions on Computers, 2021, 70, 759-774.	2.4	10
25	Optimal Application Deployment in Resource Constrained Distributed Edges. IEEE Transactions on Mobile Computing, 2021, 20, 1907-1923.	3.9	98
26	Activate Cost-Effective Mobile Crowd Sensing with Multi-access Edge Computing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 78-97.	0.2	0
27	Incentive-Driven Computation Offloading in Blockchain-Enabled E-Commerce. ACM Transactions on Internet Technology, 2021, 21, 1-19.	3.0	9
28	Reaching consensus in decentralized coordination of distributed microservices. Computer Networks, 2021, 187, 107786.	3.2	2
29	Towards the optimality of service instance selection in mobile edge computing. Knowledge-Based Systems, 2021, 217, 106831.	4.0	15
30	An Empirical Study of the Landscape of Open Source Projects in Baidu, Alibaba, and Tencent. , 2021, , .		2
31	Burst Load Evacuation Based on Dispatching and Scheduling In Distributed Edge Networks. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 1918-1932.	4.0	33
32	Optimal Placement of Recurrent Service Chains on Distributed Edge-Cloud Infrastructures. , 2021, , .		4
33	FocAnnot: Patch-Wise Active Learning for Intensive Cell Image Segmentation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 355-371.	0.2	3
34	Hypomimia Recognition in Parkinson's Disease With Semantic Features. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-20.	3.0	5
35	Attentive sequential model based on graph neural network for next poi recommendation. World Wide Web, 2021, 24, 2161-2184.	2.7	37
36	Incentive-driven Edge Cooperation for Service Provision. , 2021, , .		1

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37	Energy-effective IoT Services in Balanced Edge-Cloud Collaboration Systems. , 2021, , .		5
38	Deploying Data-intensive Applications with Multiple Services Components on Edge. Mobile Networks and Applications, 2020, 25, 426-441.	2.2	64
39	A Game-Theoretical Approach for User Allocation in Edge Computing Environment. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 515-529.	4.0	235
40	Offloading decision methods for multiple users with structured tasks in edge computing for smart cities. Future Generation Computer Systems, 2020, 105, 717-729.	4.9	73
41	Dynamical Service Deployment and Replacement in Resource-Constrained Edges. Mobile Networks and Applications, 2020, 25, 674-689.	2.2	21
42	Service Function Chain Placement for Joint Cost and Latency Optimization. Mobile Networks and Applications, 2020, 25, 2191-2205.	2.2	27
43	A Performance Modelling Approach for SLA-Aware Resource Recommendation in Cloud Native Network Functions. , 2020, , .		7
44	An Empirical Study of the Dependency Networks of Deep Learning Libraries. , 2020, , .		16
45	JTang Dubhe: a Service Pattern Modeling and Analysis System. , 2020, , .		2
46	Mobile Service Computing. Advanced Topics in Science and Technology in China, 2020, , .	0.0	5
47	A Service-oriented Network Infrastructure for Crossover Service Ecosystems. IEEE Internet Computing, 2020, 24, 48-58.	3.2	7
48	SCAU-Net: Spatial-Channel Attention U-Net for Gland Segmentation. Frontiers in Bioengineering and Biotechnology, 2020, 8, 670.	2.0	62
49	Dynamical Resource Allocation in Edge for Trustable Internet-of-Things Systems: A Reinforcement Learning Method. IEEE Transactions on Industrial Informatics, 2020, 16, 6103-6113.	7.2	116
50	Edge Intelligence: The Confluence of Edge Computing and Artificial Intelligence. IEEE Internet of Things Journal, 2020, 7, 7457-7469.	5.5	480
51	Development, Validation and Comparison of Artificial Neural Network Models and Logistic Regression Models Predicting Survival of Unresectable Pancreatic Cancer. Frontiers in Bioengineering and Biotechnology, 2020, 8, 196.	2.0	24
52	What do Programmers Discuss about Deep Learning Frameworks. Empirical Software Engineering, 2020, 25, 2694-2747.	3.0	50
53	Computing Power Allocation and Traffic Scheduling for Edge Service Provisioning. , 2020, , .		14
54	Bradykinesia Recognition in Parkinsonâ€™s Disease via Single RGB Video. ACM Transactions on Knowledge Discovery From Data, 2020, 14, 1-19.	2.5	4

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55	Mobile Service Selection. Advanced Topics in Science and Technology in China, 2020, , 31-87.	0.0	0
56	A Rule-based Service Pattern Convergence Framework for Crossover Service. , 2020, , .		2
57	Services Computing: A Brief Overview. Advanced Topics in Science and Technology in China, 2020, , 1-15.	0.0	0
58	A Preliminary Study on Sensitive Information Exposure Through Logging. , 2020, , .		0
59	Mobile Service Composition. Advanced Topics in Science and Technology in China, 2020, , 141-191.	0.0	0
60	Mobile Services Recommendation. Advanced Topics in Science and Technology in China, 2020, , 89-140.	0.0	0
61	Mobile Services Computation Offloading. Advanced Topics in Science and Technology in China, 2020, , 241-278.	0.0	0
62	Mobile Services Computing: Opportunities and Challenges. Advanced Topics in Science and Technology in China, 2020, , 17-30.	0.0	0
63	Mobile Service Deployment. Advanced Topics in Science and Technology in China, 2020, , 193-239.	0.0	0
64	Mobile Service Provisioning. Advanced Topics in Science and Technology in China, 2020, , 279-329.	0.0	1
65	An Auction-Based Incentive Mechanism with Blockchain for IoT Collaboration. , 2020, , .		7
66	A Scenario-based Modeling Method for Crossover Services. , 2020, , .		3
67	Service Pattern Modeling and Simulation: A Case Study of Rural Taobao. , 2020, , .		2
68	Optimal Sizing of PEV Fast Charging Stations With Markovian Demand Characterization. IEEE Transactions on Smart Grid, 2019, 10, 4457-4466.	6.2	88
69	Mobility-Aware Service Selection in Mobile Edge Computing Systems. , 2019, , .		19
70	A Mobility-Aware Cross-Edge Computation Offloading Framework for Partitionable Applications. , 2019, , .		55
71	Data-Intensive Application Deployment at Edge: A Deep Reinforcement Learning Approach. , 2019, , .		22
72	Characterization and Prediction of Popular Projects on GitHub. , 2019, , .		14

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73	Quality Assessment for Large-Scale Industrial Software Systems: Experience Report at Alibaba. , 2019, , .		3
74	An Exploratory Study of Logging Configuration Practice in Java. , 2019, , .		17
75	A Scenario-Based Requirement Model for Crossover Healthcare Service. , 2019, , .		7
76	Diversified Quality Centric Service Recommendation. , 2019, , .		9
77	Predicting e-book ranking based on the implicit user feedback. World Wide Web, 2019, 22, 637-655.	2.7	4
78	Integration of Machine Learning Techniques as Auxiliary Diagnosis of Inherited Metabolic Disorders: Promising Experience with Newborn Screening Data. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 334-349.	0.2	3
79	Learning to embed music and metadata for context-aware music recommendation. World Wide Web, 2018, 21, 1399-1423.	2.7	23
80	Sequence-based context-aware music recommendation. Information Retrieval, 2018, 21, 230-252.	1.6	48
81	D^{3} : A Dynamic Dual-Phase Deduplication Framework for Distributed Primary Storage. IEEE Transactions on Computers, 2018, 67, 193-207.	2.4	3
82	NFV-Inspector: A Systematic Approach to Profile and Analyze Virtual Network Functions. , 2018, , .		3
83	A Density-Based Offloading Strategy for IoT Devices in Edge Computing Systems. IEEE Access, 2018, 6, 73520-73530.	2.6	53
84	Multi-Objective Optimization for Location Prediction of Mobile Devices in Sensor-Based Applications. IEEE Access, 2018, 6, 77123-77132.	2.6	36
85	Composition-Driven IoT Service Provisioning in Distributed Edges. IEEE Access, 2018, 6, 54258-54269.	2.6	72
86	Request Dispatching for Minimizing Service Response Time in Edge Cloud Systems. , 2018, , .		14
87	A Privacy Protection Model of Data Publication Based on Game Theory. Security and Communication Networks, 2018, 2018, 1-13.	1.0	12
88	Service Selection for Composition in Mobile Edge Computing Systems. , 2018, , .		32
89	Evaluating User Satisfaction with Typography Designs via Mining Touch Interaction Data in Mobile Reading. , 2018, , .		8
90	Crossover Service: Deep Convergence for Pattern, Ecosystem, Environment, Quality and Value. , 2018, , .		19

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91	Mobility-Aware Service Composition in Mobile Communities. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 555-568.	5.9	107
92	On Deep Learning for Trust-Aware Recommendations in Social Networks. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1164-1177.	7.2	218
93	Mobile Service Selection for Composition: An Energy Consumption Perspective. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1478-1490.	3.4	71
94	A Recommendation System to Facilitate Business Process Modeling. IEEE Transactions on Cybernetics, 2017, 47, 1380-1394.	6.2	52
95	ASSER: An Efficient, Reliable, and Cost-Effective Storage Scheme for Object-Based Cloud Storage Systems. IEEE Transactions on Computers, 2017, 66, 1326-1340.	2.4	14
96	Revenue-Driven Service Provisioning for Resource Sharing in Mobile Cloud Computing. Lecture Notes in Computer Science, 2017, , 625-640.	1.0	13
97	Music recommendation via heterogeneous information graph embedding. , 2017, , .		11
98	Hierarchical RNN Networks for Structured Semantic Web API Model Learning and Extraction. , 2017, , .		3
99	Alliance-Aware Service Composition Based on Quotient Space. , 2016, , .		19
100	DIODE: Dynamic Inline-Offline DE Duplication Providing Efficient Space-Saving and Read/Write Performance for Primary Storage Systems. , 2016, , .		4
101	Improving Music Recommendation Using Distributed Representation. , 2016, , .		11
102	A sparse unmixing model based on NMF and its application in Raman image. Neurocomputing, 2016, 207, 120-130.	3.5	12
103	CAMER: A Context-Aware Mobile Service Recommendation System. , 2016, , .		8
104	Constraints-Driven Service Composition in Mobile Cloud Computing. , 2016, , .		26
105	Toward Mobile Service Computing: Opportunities and Challenges. IEEE Cloud Computing, 2016, 3, 32-41.	5.3	43
106	JTangCMS: An efficient monitoring system for cloud platforms. Information Sciences, 2016, 370-371, 402-423.	4.0	16
107	Service Selection for Composition with QoS Correlations. IEEE Transactions on Services Computing, 2016, 9, 291-303.	3.2	114
108	Mobility-Enabled Service Selection for Composite Services. IEEE Transactions on Services Computing, 2016, 9, 394-407.	3.2	66

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109	Context-aware QoS prediction for web service recommendation and selection. Expert Systems With Applications, 2016, 53, 75-86.	4.4	104
110	Toward Risk Reduction for Mobile Service Composition. IEEE Transactions on Cybernetics, 2016, 46, 1807-1816.	6.2	30
111	Cost Performance Driven Service Mashup: A Developer Perspective. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2234-2247.	4.0	27
112	Modern Service Industry and Crossover Services: Development and Trends in China. IEEE Transactions on Services Computing, 2016, 9, 664-671.	3.2	48
113	GEMRec: A Graph-Based Emotion-Aware Music Recommendation Approach. Lecture Notes in Computer Science, 2016, , 92-106.	1.0	8
114	Learning Music Embedding with Metadata for Context Aware Recommendation. , 2016, , .		20
115	MICS: Mingling Chained Storage Combining Replication and Erasure Coding. , 2015, , .		6
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117	Service Verification and Dynamic Reconfiguration. , 2015, , 229-265.		0
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123	Moisture content prediction in tealeaf with near infrared hyperspectral imaging. Computers and Electronics in Agriculture, 2015, 118, 38-46.	3.7	31
124	An infinite Gaussian mixture model with its application in hyperspectral unmixing. Expert Systems With Applications, 2015, 42, 1987-1997.	4.4	10
125	Deploying Data-Intensive Service Composition with a Negative Selection Algorithm. International Journal of Web Services Research, 2014, 11, 76-93.	0.5	15
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129	Social network-based service recommendation with trust enhancement. Expert Systems With Applications, 2014, 41, 8075-8084.	4.4	145
130	Colbar: A collaborative location-based regularization framework for QoS prediction. Information Sciences, 2014, 265, 68-84.	4.0	90
131	Top-<formula formulatype="inline"><tex Notation="TeX">${m k}$</tex></formula> Automatic Service Composition: A Parallel Method for Large-Scale Service Sets. IEEE Transactions on Automation Science and Engineering, 2014, 11, 891-905.	3.4	48
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133	A feature-selection algorithm based on Support Vector Machine-Multiclass for hyperspectral visible spectral analysis. Journal of Food Engineering, 2013, 119, 159-166.	2.7	35
134	Analysing and determining substitutability of different granularity Web services. International Journal of Computer Mathematics, 2013, 90, 2201-2220.	1.0	17
135	A Maximal Common Subgraph Based Method for Process Retrieval. , 2013, , .		8
136	A Trust Evaluation Mechanism for Collaboration of Data-Intensive Services in Cloud. Applied Mathematics and Information Sciences, 2013, 7, 121-129.	0.7	16
137	2012 International Workshop on Data Intensive Services Based Application (DISA2012). Lecture Notes in Computer Science, 2013, , 85-86.	1.0	1
138	A highly efficient cloud-based architecture for large-scale STB event processing. , 2012, , .		2
139	Collaborative Web Service QoS Prediction with Location-Based Regularization. , 2012, , .		96
140	An Extended Matrix Factorization Approach for QoS Prediction in Service Selection. , 2012, , .		74
141	Graph-based workflow recommendation. , 2012, , .		11
142	An Efficient Data Dissemination Approach for Cloud Monitoring. Lecture Notes in Computer Science, 2012, , 733-747.	1.0	2
143	A MIP-Based Optimal Partition Approach for Service-Oriented Product Line Architecture. Advanced Science Letters, 2012, 7, 107-110.	0.2	0
144	AWSP: An Automatic Web Service Planner Based on Heuristic State Space Search. , 2011, , .		15

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145	Data-Dependency Aware Trust Evaluation for Service Choreography. , 2011, , .		1
146	Reference Models for Saas Oriented Business Workflow Management Systems. , 2011, , .		8
147	WTCluster: Utilizing Tags for Web Services Clustering. Lecture Notes in Computer Science, 2011, , 204-218.	1.0	68
148	Recommendation on Uncertain Services. , 2010, , .		6
149	Analyzing Behavioral Substitution of Web Services Based on Pi-calculus. , 2010, , .		10
150	Towards QoS-Based Dynamic Reconfiguration of SOA-Based Applications. , 2010, , .		9
151	Improve Service Interface Adaptation Using Sub-ontology Extraction. , 2010, , .		2
152	Automatic Composition of Semantic Web Services An Enhanced State Space Search Approach. , 2010, , .		2
153	Service Recommendation: Similarity-Based Representative Skyline. , 2010, , .		5
154	An Efficient Service Discovery Method and its Application. International Journal of Web Services Research, 2009, 6, 94-117.	0.5	9
155	Ontology Alignment Based Service Interface Adaptation. , 2009, , .		2
156	Ensuring Correctness of Dynamic Reconfiguration in SOA Based Software. , 2009, , .		5
157	Computing compatibility in dynamic service composition. Knowledge and Information Systems, 2009, 19, 107-129.	2.1	31
158	Towards Adaptation of Service Interface Semantics. , 2009, , .		9
159	A Dependable ESB Framework for Service Integration. IEEE Internet Computing, 2009, 13, 26-34.	3.2	34
160	Verifying Consistency of Web Services Behavior Using Type Theory. , 2008, , .		7
161	Verifying Consistency of Web Services Behavior. , 2008, , .		0
162	Automating Service Matchmaking using Type Theory. , 2007, , .		4

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163	Inverted Indexing for Composition-Oriented Service Discovery. , 2007, , .		22
164	Time Management for Web Service Composition. , 2007, , .		2
165	Automatic Service Composition Based on Process Ontology. , 2007, , .		6
166	Exploring Dependency between Interfaces in Service Matchmaking. , 2007, , .		4
167	Towards Semantic e-Science for Traditional Chinese Medicine. BMC Bioinformatics, 2007, 8, S6.	1.2	24
168	Expressing Service and Query Behavior Using pi-Calculus for Matchmaking. , 2006, , .		9
169	ITSGrid: A Novel Integrated Intelligent Transportation Information and Service Platform. , 2006, , .		4
170	Consideration of Operation Composition in Semantic Service Matchmaking. , 2006, , .		8
171	Describing and Verifying Web Service Using Type Theory. , 2006, , .		4
172	Service Classification Using Adaptive Back-Propagation Neural Network and Semantic Similarity. , 2006, , .		3
173	Exploring the Flexible Workflow Technology to Automate Service Composition. Lecture Notes in Computer Science, 2006, , 444-458.	1.0	11
174	Modeling Service Compatibility with Pi-calculus for Choreography. Lecture Notes in Computer Science, 2006, , 26-39.	1.0	20
175	DartGrid: RDF-Mediated Database Integration and Process Coordination Using Grid as the Platform. Lecture Notes in Computer Science, 2005, , 351-363.	1.0	6
176	Exploring semantic technologies in service matchmaking. , 2005, , .		16
177	DartGrid II: a semantic grid platform for ITS. IEEE Intelligent Systems, 2005, 20, 12-15.	4.0	26
178	Temporal Problems in Service-Based Workflows. Lecture Notes in Computer Science, 2004, , 954-961.	1.0	1
179	Virtual Workflow Management System in Grid Environment. Lecture Notes in Computer Science, 2004, , 978-985.	1.0	0
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181	A Secure Process-Service Model. Lecture Notes in Computer Science, 2004, , 627-630.	1.0	1
182	Automatic Service Matching and Service Discovery Based on Ontology. Lecture Notes in Computer Science, 2004, , 99-106.	1.0	5
183	Management of Serviceflow in a Flexible Way. Lecture Notes in Computer Science, 2004, , 428-438.	1.0	14
184	Research on Service-Oriented Software Framework. Lecture Notes in Computer Science, 2004, , 27-35.	1.0	0
185	ASCEND: a framework for automatic service composition and execution in dynamic environment. , 0, , .		1
186	A Transaction Management Framework for Service-Based Workflow. , 0, , .		1
187	Service-Oriented Workflow Model. , 0, , .		1
188	A Novel Service Recommendation Approach in Mashup Creation. Intelligent Automation and Soft Computing, 0, , -1--1.	1.6	0
189	An Efficient Service Discovery Method and its Application. , 0, , 382-404.		0