

# Wanchun Dou

## List of Publications by Year in descending order

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147  
papers

5,068  
citations

81889

39  
h-index

110368

64  
g-index

149  
all docs

149  
docs citations

149  
times ranked

3603  
citing authors

#	ARTICLE	IF	CITATIONS
1	Placing Wireless Chargers With Limited Mobility. IEEE Transactions on Mobile Computing, 2023, 22, 3589-3603.	5.8	21
2	MRMondrian: Scalable Multidimensional Anonymisation for Big Data Privacy Preservation. IEEE Transactions on Big Data, 2022, 8, 125-139.	6.1	21
3	ROSE: Robustly Safe Charging for Wireless Power Transfer. IEEE Transactions on Mobile Computing, 2022, 21, 2180-2197.	5.8	38
4	Data-Driven Web APIs Recommendation for Building Web Applications. IEEE Transactions on Big Data, 2022, 8, 685-698.	6.1	69
5	A long short-term memory-based model for greenhouse climate prediction. International Journal of Intelligent Systems, 2022, 37, 135-151.	5.7	102
6	Rethinking Fine-Grained Measurement From Software-Defined Perspective: A Survey. IEEE Transactions on Services Computing, 2022, 15, 3649-3667.	4.6	3
7	Quantified Edge Server Placement With Quantum Encoding in Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9370-9379.	8.0	7
8	Time-Aware Missing Traffic Flow Prediction for Sensors with Privacy-Preservation. Lecture Notes in Electrical Engineering, 2022, , 721-730.	0.4	3
9	Combinatorial double auction for resource allocation with differential privacy in edge computing. Computer Communications, 2022, 185, 13-22.	5.1	4
10	Identifying fraud in medical insurance based on blockchain and deep learning. Future Generation Computer Systems, 2022, 130, 140-154.	7.5	30
11	Continuous Network Update With Consistency Guaranteed in Software-Defined Networks. IEEE/ACM Transactions on Networking, 2022, 30, 1424-1438.	3.8	2
12	DisCOV: Distributed COVID-19 Detection on X-Ray Images With Edge-Cloud Collaboration. IEEE Transactions on Services Computing, 2022, 15, 1206-1219.	4.6	71
13	CroApp: A CNN-Based Resource Optimization Approach in Edge Computing Environment. IEEE Transactions on Industrial Informatics, 2022, 18, 6300-6307.	11.3	23
14	Meet: Rack-Level Pooling Based Load Balancing in Datacenter Networks. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 3628-3639.	5.6	1
15	A Correlation Graph based Approach for Personalized and Compatible Web APIs Recommendation in Mobile APP Development. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	5.7	88
16	PushBox: Making Use of Every Bit of Time to Accelerate Completion of Data-Parallel Jobs. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-14.	5.6	0
17	A deep learning-based edge caching optimization method for cost-driven planning process over IIoT. Journal of Parallel and Distributed Computing, 2022, 168, 80-89.	4.1	5
18	Keywords-driven web APIs group recommendation for automatic app service creation process. Software - Practice and Experience, 2021, 51, 2337-2354.	3.6	12

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19	Service offloading oriented edge server placement in smart farming. Software - Practice and Experience, 2021, 51, 2540-2557.	3.6	15
20	Privacy-Aware Cross-Platform Service Recommendation Based on Enhanced Locality-Sensitive Hashing. IEEE Transactions on Network Science and Engineering, 2021, 8, 1145-1153.	6.4	98
21	User Grouping for Sharing Services with Capacity Limit. IEEE Transactions on Services Computing, 2021, 14, 614-627.	4.6	1
22	Trust-Aware Service Offloading for Video Surveillance in Edge Computing Enabled Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1787-1796.	8.0	72
23	A WiFi-aware method for mobile data offloading with deadline constraints. Concurrency Computation Practice and Experience, 2021, 33, 1-1.	2.2	2
24	Task scheduling with precedence and placement constraints for resource utilization improvement in multi-user MEC environment. Journal of Systems Architecture, 2021, 114, 101970.	4.3	28
25	Edge Computing-Enabled Deep Learning for Real-time Video Optimization in IIoT. IEEE Transactions on Industrial Informatics, 2021, 17, 2842-2851.	11.3	26
26	Isolation Forest Based Anomaly Detection Framework on Non-IID Data. IEEE Intelligent Systems, 2021, 36, 31-40.	4.0	9
27	Point-of-Interest Recommendation with User's Privacy Preserving in an IoT Environment. Mobile Networks and Applications, 2021, 26, 2445-2460.	3.3	9
28	Edge Content Caching with Deep Spatiotemporal Residual Network for IoV in Smart City. ACM Transactions on Sensor Networks, 2021, 17, 1-33.	3.6	86
29	A QoS-guaranteed online user data deployment method in edge cloud computing environment. Journal of Systems Architecture, 2021, 118, 102185.	4.3	10
30	Fair and size-scalable participant selection framework for large-scale mobile crowdsensing. Journal of Systems Architecture, 2021, 119, 102273.	4.3	8
31	Buffer-Assisted Network Updates in Timed SDN. IEEE Transactions on Communications, 2021, , 1-1.	7.8	2
32	Floodgate. , 2021, , .		6
33	A Service Migration Method for Resource Competition in Mobile Edge Computing. , 2021, , .		1
34	CoPace: Edge Computation Offloading and Caching for Self-Driving With Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2021, 70, 13281-13293.	6.3	30
35	Scheduling workflows with privacy protection constraints for big data applications on cloud. Future Generation Computer Systems, 2020, 108, 1084-1091.	7.5	51
36	A balanced virtual machine scheduling method for energy-performance trade-offs in cyber-physical cloud systems. Future Generation Computer Systems, 2020, 105, 789-799.	7.5	72

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37	An insurance theory based optimal cyber-insurance contract against moral hazard. Information Sciences, 2020, 527, 576-589.	6.9	18
38	Practical Heterogeneous Wireless Charger Placement with Obstacles. IEEE Transactions on Mobile Computing, 2020, 19, 1910-1927.	5.8	30
39	Temporal-aware and sparsity-tolerant hybrid collaborative recommendation method with privacy preservation. Concurrency Computation Practice and Experience, 2020, 32, e5447.	2.2	8
40	BeCome: Blockchain-Enabled Computation Offloading for IoT in Mobile Edge Computing. IEEE Transactions on Industrial Informatics, 2020, 16, 4187-4195.	11.3	222
41	Dynamic Resource Provisioning With Fault Tolerance for Data-Intensive Meteorological Workflows in Cloud. IEEE Transactions on Industrial Informatics, 2020, 16, 6172-6181.	11.3	88
42	TrCMP: A dependable app usage inference design for user behavior analysis through cyber-physical parameters. Journal of Systems Architecture, 2020, 102, 101665.	4.3	6
43	Locally private frequency estimation of physical symptoms for infectious disease analysis in Internet of Medical Things. Computer Communications, 2020, 162, 139-151.	5.1	19
44	Coeus: Consistent and Continuous Network Update in Software-Defined Networks. , 2020, , .		10
45	A Survey of Game Theoretical Privacy Preservation for Data Sharing and Publishing. Communications in Computer and Information Science, 2020, , 205-216.	0.5	1
46	A Personalized Preservation Mechanism Satisfying Local Differential Privacy in Location-Based Services. Communications in Computer and Information Science, 2020, , 161-175.	0.5	1
47	Blockchain-based Mobility-aware Offloading mechanism for Fog computing services. Computer Communications, 2020, 164, 261-273.	5.1	17
48	Complementing IoT Services Through Software Defined Networking and Edge Computing: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1761-1804.	39.4	208
49	Placement of Unmanned Aerial Vehicles for Directional Coverage in 3D Space. IEEE/ACM Transactions on Networking, 2020, 28, 888-901.	3.8	24
50	An Application Development Framework for Internet-of-Things Service Orchestration. IEEE Internet of Things Journal, 2020, 7, 4543-4556.	8.7	40
51	P-PFC: Reducing Tail Latency with Predictive PFC in Lossless Data Center Networks. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1447-1459.	5.6	17
52	Exploring Token-Oriented In-Network Prioritization in Datacenter Networks. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1223-1238.	5.6	2
53	Data security over wireless transmission for enterprise multimedia security with fountain codes. Multimedia Tools and Applications, 2020, 79, 10781-10803.	3.9	11
54	Multi-dimensional quality-driven service recommendation with privacy-preservation in mobile edge environment. Computer Communications, 2020, 157, 116-123.	5.1	72

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55	A Context-Aware Service Evaluation Approach over Big Data for Cloud Applications. IEEE Transactions on Cloud Computing, 2020, 8, 338-348.	4.4	37
56	Game Theory for Mobile Location Privacy. , 2020, , .		3
57	A Proof-of-Majority Consensus Protocol for Blockchain-enabled Collaboration Infrastructure of 5G Network Slice Brokers. , 2020, , .		4
58	DPODA: Differential Privacy-based Online Double Auction for Pervasive Edge Computing Resource Allocation. , 2020, , .		0
59	A heuristic line piloting method to disclose malicious taxicab driver's privacy over GPS big data. Information Sciences, 2019, 483, 247-261.	6.9	8
60	An offloading method using decentralized P2P-enabled mobile edge servers in edge computing. Journal of Systems Architecture, 2019, 94, 1-13.	4.3	39
61	Quality-Aware Service Selection for Multi-Tenant Service Oriented Systems Based on Combinatorial Auction. IEEE Access, 2019, 7, 35645-35660.	4.2	4
62	Scheduling dependent coflows to minimize the total weighted job completion time in datacenters. Computer Networks, 2019, 158, 193-205.	5.1	5
63	A Blockchain-Powered Crowdsourcing Method With Privacy Preservation in Mobile Environment. IEEE Transactions on Computational Social Systems, 2019, 6, 1407-1419.	4.4	116
64	Finding All You Need: Web APIs Recommendation in Web of Things Through Keywords Search. IEEE Transactions on Computational Social Systems, 2019, 6, 1063-1072.	4.4	129
65	Intelligent Service Recommendation for Cold-Start Problems in Edge Computing. IEEE Access, 2019, 7, 46637-46645.	4.2	10
66	SocioRank*: A community and role detection method in social networks. Computers and Electrical Engineering, 2019, 76, 122-132.	4.8	11
67	Radiation Constrained Fair Charging for Wireless Power Transfer. ACM Transactions on Sensor Networks, 2019, 15, 1-33.	3.6	17
68	An energy-aware computation offloading method for smart edge computing in wireless metropolitan area networks. Journal of Network and Computer Applications, 2019, 133, 75-85.	9.1	140
69	Multiobjective computation offloading for workflow management in cloudlet-based mobile cloud using NSGA-II. Computational Intelligence, 2019, 35, 476-495.	3.2	46
70	A K-Anonymity Based Schema for Location Privacy Preservation. IEEE Transactions on Sustainable Computing, 2019, 4, 156-167.	3.1	49
71	An Anti-fraud Framework for Medical Insurance Based on Deep Learning. Lecture Notes in Computer Science, 2019, , 871-878.	1.3	1
72	A two-stage locality-sensitive hashing based approach for privacy-preserving mobile service recommendation in cross-platform edge environment. Future Generation Computer Systems, 2018, 88, 636-643.	7.5	175

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73	Structural Balance Theory-Based E-Commerce Recommendation over Big Rating Data. IEEE Transactions on Big Data, 2018, 4, 301-312.	6.1	43
74	Hybrid computation offloading for smart home automation in mobile cloud computing. Personal and Ubiquitous Computing, 2018, 22, 121-134.	2.8	52
75	A Resource Co-Allocation method for load-balance scheduling over big data platforms. Future Generation Computer Systems, 2018, 86, 1064-1075.	7.5	16
76	A Blockchain-Based Offloading Approach in Fog Computing Environment. , 2018, , .		16
77	A Dynamic Resource Allocation Method for Load-Balance Scheduling Over Big Data Platforms. , 2018, , .		1
78	High Quality Participant Recruitment of Mobile Crowdsourcing over Big Data. , 2018, , .		2
79	An Energy-Aware Virtual Machine Scheduling Method for Cloudlets in Wireless Metropolitan Area Networks. , 2018, , .		2
80	Spatial-Temporal Aware Intelligent Service Recommendation Method Based on Distributed Tensor factorization for Big Data Applications. IEEE Access, 2018, 6, 59462-59474.	4.2	9
81	An Offloading Approach in Fog Computing Environment. , 2018, , .		7
82	A Workflow Scheduling Method for Cloudlet Management in Mobile Cloud. , 2018, , .		3
83	Robustly Safe Charging for Wireless Power Transfer. , 2018, , .		24
84	Dynamic Mobile Crowdsourcing Selection for Electricity Load Forecasting. IEEE Access, 2018, 6, 46926-46937.	4.2	86
85	Dynamic Resource Allocation for Load Balancing in Fog Environment. Wireless Communications and Mobile Computing, 2018, 2018, 1-15.	1.2	132
86	An Exception Handling Approach for Privacy-Preserving Service Recommendation Failure in a Cloud Environment. Sensors, 2018, 18, 2037.	3.8	46
87	Heterogeneous Wireless Charger Placement with Obstacles. , 2018, , .		16
88	Wireless Charger Placement for Directional Charging. IEEE/ACM Transactions on Networking, 2018, 26, 1865-1878.	3.8	65
89	Service Mining for Trusted Service Composition in Cross-Cloud Environment. IEEE Systems Journal, 2017, 11, 283-294.	4.6	21
90	A traffic hotline discovery method over cloud of things using big taxi GPS data. Software - Practice and Experience, 2017, 47, 361-377.	3.6	15

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91	Game Theory Based Correlated Privacy Preserving Analysis in Big Data. IEEE Transactions on Big Data, 2017, , 1-1.	6.1	30
92	LSHiForest: A Generic Framework for Fast Tree Isolation Based Ensemble Anomaly Analysis. , 2017, , .		46
93	Low-Cost Adaptive Lebesgue Sampling Particle Filtering Approach for Real-Time Li-Ion Battery Diagnosis and Prognosis. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1601-1611.	5.2	29
94	Mobile Live Video Streaming Optimization via Crowdsourcing Brokerage. IEEE Transactions on Multimedia, 2017, 19, 2267-2281.	7.2	7
95	An energy-aware virtual machine scheduling method for service QoS enhancement in clouds over big data. Concurrency Computation Practice and Experience, 2017, 29, e3909.	2.2	22
96	A Distributed Locality-Sensitive Hashing-Based Approach for Cloud Service Recommendation From Multi-Source Data. IEEE Journal on Selected Areas in Communications, 2017, 35, 2616-2624.	14.0	177
97	Data Placement for Privacy-Aware Applications over Big Data in Hybrid Clouds. Security and Communication Networks, 2017, 2017, 1-15.	1.5	25
98	Privacy-Preserving and Scalable Service Recommendation Based on SimHash in a Distributed Cloud Environment. Complexity, 2017, 2017, 1-9.	1.6	78
99	Weighted principal component analysis-based service selection method for multimedia services in cloud. Computing (Vienna/New York), 2016, 98, 195-214.	4.8	65
100	A scalable and automatic mechanism for resource allocation in self-organizing cloud. Peer-to-Peer Networking and Applications, 2016, 9, 28-41.	3.9	32
101	Time-Aware IoE Service Recommendation on Sparse Data. Mobile Information Systems, 2016, 2016, 1-12.	0.6	20
102	DDoS attacks on data plane of software-defined network: are they possible?. Security and Communication Networks, 2016, 9, 5444-5459.	1.5	10
103	A Virtual Machine Scheduling Method for Trade-Offs Between Energy and Performance in Cloud Environment. , 2016, , .		4
104	A method for real-time trajectory monitoring to improve taxi service using GPS big data. Information and Management, 2016, 53, 964-977.	6.5	53
105	Combined Cloud: A Mixture of Voluntary Cloud and Reserved Instance Marketplace. Journal of Computer Science and Technology, 2016, 31, 1110-1123.	1.5	3
106	<i>EnReal</i> : An Energy-Aware Resource Allocation Method for Scientific Workflow Executions in Cloud Environment. IEEE Transactions on Cloud Computing, 2016, 4, 166-179.	4.4	125
107	Service Recommendation Based on Social Balance Theory and Collaborative Filtering. Lecture Notes in Computer Science, 2016, , 637-645.	1.3	2
108	Scalable Iterative Implementation of Mondrian for Big Data Multidimensional Anonymisation. Lecture Notes in Computer Science, 2016, , 311-320.	1.3	3

#	ARTICLE	IF	CITATIONS
109	An Energy-Aware QoS Enhanced Method for Service Computing across Clouds and Data Centers. , 2015, , .		3
110	Eliminating the Correlations of Quality of Service Criteria in Web Service Selection. Journal of Computational and Theoretical Nanoscience, 2015, 12, 292-297.	0.4	0
111	Proximity-Aware Local-Recoding Anonymization with MapReduce for Scalable Big Data Privacy Preservation in Cloud. IEEE Transactions on Computers, 2015, 64, 2293-2307.	3.4	89
112	HireSome-II: Towards Privacy-Aware Cross-Cloud Service Composition for Big Data Applications. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 455-466.	5.6	101
113	A service evaluation method for cross-cloud service choreography. Concurrency Computation Practice and Experience, 2015, 27, 2373-2389.	2.2	2
114	A Decentralized Cloud Firewall Framework with Resources Provisioning Cost Optimization. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 621-631.	5.6	26
115	A cloud-based framework for Home-diagnosis service over big medical data. Journal of Systems and Software, 2015, 102, 192-206.	4.5	75
116	A Trust Evaluation Method for Cloud Service with Fluctuant QoS and Flexible SLA. , 2014, , .		14
117	A hybrid approach for scalable sub-tree anonymization over big data using MapReduce on cloud. Journal of Computer and System Sciences, 2014, 80, 1008-1020.	1.2	98
118	KASR: A Keyword-Aware Service Recommendation Method on MapReduce for Big Data Applications. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 3221-3231.	5.6	127
119	A clusterized firewall framework for cloud computing. , 2014, , .		7
120	ClubCF: A Clustering-Based Collaborative Filtering Approach for Big Data Application. IEEE Transactions on Emerging Topics in Computing, 2014, 2, 302-313.	4.6	93
121	An adaptive service selection method for cross-cloud service composition. Concurrency Computation Practice and Experience, 2013, 25, 2435-2454.	2.2	30
122	A MapReduce Based Approach of Scalable Multidimensional Anonymization for Big Data Privacy Preservation on Cloud. , 2013, , .		31
123	A confidence-based filtering method for DDoS attack defense in cloud environment. Future Generation Computer Systems, 2013, 29, 1838-1850.	7.5	80
124	An evaluation method of outsourcing services for developing an elastic cloud platform. Journal of Supercomputing, 2013, 63, 1-23.	3.6	24
125	A QoS-aware service discovery method for elastic cloud computing in an unstructured peer-to-peer network. Concurrency Computation Practice and Experience, 2013, 25, 1843-1860.	2.2	13
126	A personalised search approach for web service recommendation. International Journal of Ad Hoc and Ubiquitous Computing, 2013, 13, 83.	0.5	4



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127	A Method for Optimizing Top-k Composite Services towards Preference-Aware Service Dominance. International Journal of Web Services Research, 2013, 10, 63-86.	0.8	0
128	A QoS-aware composition method supporting cross-platform service invocation in cloud environment. Journal of Computer and System Sciences, 2012, 78, 1316-1329.	1.2	58
129	Self-Adaptive Cloud Pricing Strategies with Markov Prediction and Data Mining Method. , 2012, , .		5
130	A framework for transformation from conceptual to logical workflow models. Decision Support Systems, 2012, 54, 781-794.	5.9	10
131	Predicted Packet Padding for Anonymous Web Browsing Against Traffic Analysis Attacks. IEEE Transactions on Information Forensics and Security, 2012, 7, 1381-1393.	6.9	29
132	A Collaborative QoS-Aware Service Evaluation Method Among Multi-Users for a Shared Service. International Journal of Web Services Research, 2012, 9, 30-50.	0.8	8
133	CBF: A Packet Filtering Method for DDoS Attack Defense in Cloud Environment. , 2011, , .		51
134	An Upper-Bound Control Approach for Cost-Effective Privacy Protection of Intermediate Dataset Storage in Cloud. , 2011, , .		5
135	A workflow framework for intelligent service composition. Future Generation Computer Systems, 2011, 27, 627-636.	7.5	62
136	A QoS-aware exception handling method in scientific workflow execution. Concurrency Computation Practice and Experience, 2011, 23, 1951-1968.	2.2	8
137	A collaborative scheduling approach for service-driven scientific workflow execution. Journal of Computer and System Sciences, 2010, 76, 416-427.	1.2	16
138	Combining Local Optimization and Enumeration for QoS-aware Web Service Composition. , 2010, , .		65
139	A QoS-aware Web Service Selection Method Based on Credibility Evaluation. , 2010, , .		6
140	A context- and role-driven scientific workflow development pattern. Concurrency Computation Practice and Experience, 2008, 20, 1741-1757.	2.2	5
141	Toward a Model-Based Approach to Dynamic Adaptation of Composite Services. , 2008, , .		6
142	Knowledge flow management supporting complex problem solving: learning spectrum and its infrastructure. International Journal of Knowledge and Learning, 2007, 3, 88.	0.2	4
143	On design, verification, and dynamic modification of the problem-based scientific workflow model. Simulation Modelling Practice and Theory, 2007, 15, 1068-1088.	3.8	7
144	A fuzzy directed graph-based QoS model for service composition. Wuhan University Journal of Natural Sciences, 2007, 12, 861-865.	0.4	1

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145	Online computation offloading for deadline-aware tasks in edge computing. <i>Wireless Networks</i> , 0, , 1.	3.0	1
146	<scp>CPP</scp> : A <scp>content-aware</scp> privacy protection method for <scp>location-based</scp> service. <i>Expert Systems</i> , 0, , .	4.5	2
147	Smart decision for device selection in D2D-assisted multi-path video transmission network. <i>Expert Systems</i> , 0, , .	4.5	0