

Honghao Gao

List of Publications by Year in descending order

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122
papers

3,839
citations

109321

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149698

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123
all docs

123
docs citations

123
times ranked

2519
citing authors

#	ARTICLE	IF	CITATIONS
1	BeCome: Blockchain-Enabled Computation Offloading for IoT in Mobile Edge Computing. IEEE Transactions on Industrial Informatics, 2020, 16, 4187-4195.	11.3	222
2	V2VR: Reliable Hybrid-Network-Oriented V2V Data Transmission and Routing Considering RSUs and Connectivity Probability. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3533-3546.	8.0	176
3	Context-Aware QoS Prediction With Neural Collaborative Filtering for Internet-of-Things Services. IEEE Internet of Things Journal, 2020, 7, 4532-4542.	8.7	159
4	Toward Computation Offloading in Edge Computing: A Survey. IEEE Access, 2019, 7, 131543-131558.	4.2	146
5	Dynamical Resource Allocation in Edge for Trustable Internet-of-Things Systems: A Reinforcement Learning Method. IEEE Transactions on Industrial Informatics, 2020, 16, 6103-6113.	11.3	116
6	SSUR: An Approach to Optimizing Virtual Machine Allocation Strategy Based on User Requirements for Cloud Data Center. IEEE Transactions on Green Communications and Networking, 2021, 5, 670-681.	5.5	101
7	Toward service selection for workflow reconfiguration:An interface-based computing solution. Future Generation Computer Systems, 2018, 87, 298-311.	7.5	100
8	The Cloud-edge-based Dynamic Reconfiguration to Service Workflow for Mobile Ecommerce Environments. ACM Transactions on Internet Technology, 2021, 21, 1-23.	4.4	100
9	Energy aware edge computing: A survey. Computer Communications, 2020, 151, 556-580.	5.1	97
10	An IoT-based task scheduling optimization scheme considering the deadline and cost-aware scientific workflow for cloud computing. Eurasip Journal on Wireless Communications and Networking, 2019, .	2.4	95
11	Mining consuming Behaviors with Temporal Evolution for Personalized Recommendation in Mobile Marketing Apps. Mobile Networks and Applications, 2020, 25, 1233-1248.	3.3	93
12	Collaborative Learning-Based Industrial IoT API Recommendation for Software-Defined Devices: The Implicit Knowledge Discovery Perspective. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 66-76.	4.9	90
13	TSMAR: A Novel Anomaly Detection Approach for Internet of Things Time Series Data Using Memory-Augmented Autoencoder. IEEE Transactions on Network Science and Engineering, 2023, 10, 2978-2990.	6.4	89
14	QoS Prediction for Service Recommendation With Features Learning in Mobile Edge Computing Environment. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 1136-1145.	7.9	86
15	Transformation-based processing of typed resources for multimedia sources in the IoT environment. Wireless Networks, 2021, 27, 3377-3393.	3.0	83
16	A Mutually Supervised Graph Attention Network for Few-Shot Segmentation: The Perspective of Fully Utilizing Limited Samples. IEEE Transactions on Neural Networks and Learning Systems, 2024, PP, 1-13.	11.3	82
17	A novel approach to workload prediction using attention-based LSTM encoder-decoder network in cloud environment. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	2.4	80
18	Offloading decision methods for multiple users with structured tasks in edge computing for smart cities. Future Generation Computer Systems, 2020, 105, 717-729.	7.5	73

#	ARTICLE	IF	CITATIONS
19	Real-Time Multiple-Workflow Scheduling in Cloud Environments. IEEE Transactions on Network and Service Management, 2021, 18, 4002-4018.	4.9	68
20	The Deep Features and Attention Mechanism-Based Method to Dish Healthcare Under Social IoT Systems: An Empirical Study With a Hand-Deep Local-Global Net. IEEE Transactions on Computational Social Systems, 2022, 9, 336-347.	4.4	66
21	A Deep Learning Approach for Colonoscopy Pathology WSI Analysis: Accurate Segmentation and Classification. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3700-3708.	6.3	64
22	Applying Probabilistic Model Checking to Path Planning in an Intelligent Transportation System Using Mobility Trajectories and Their Statistical Data. Intelligent Automation and Soft Computing, 0, , -1--1.	2.1	62
23	A Hybrid Approach to Trust Node Assessment and Management for VANETs Cooperative Data Communication: Historical Interaction Perspective. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 16504-16513.	8.0	61
24	Prediction of Extubation Failure for Intensive Care Unit Patients Using Light Gradient Boosting Machine. IEEE Access, 2019, 7, 150960-150968.	4.2	59
25	Automated Quantitative Verification for Service-Based System Design: A Visualization Transform Tool Perspective. International Journal of Software Engineering and Knowledge Engineering, 2018, 28, 1369-1397.	0.8	58
26	A Weakly Supervised Semantic Segmentation Network by Aggregating Seed Cues: The Multi-Object Proposal Generation Perspective. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-19.	4.3	57
27	An Approach to Data Consistency Checking for the Dynamic Replacement of Service Process. IEEE Access, 2017, 5, 11700-11711.	4.2	56
28	Applying Probabilistic Model Checking to Financial Production Risk Evaluation and Control: A Case Study of Alibaba's Yu'e Bao. IEEE Transactions on Computational Social Systems, 2018, 5, 785-795.	4.4	50
29	A new QoS prediction model using hybrid IOWA-ANFIS with fuzzy C-means, subtractive clustering and grid partitioning. Information Sciences, 2022, 584, 280-300.	6.9	48
30	Blockchain-Enabled Cyber-Physical Systems: A Review. IEEE Internet of Things Journal, 2021, 8, 4023-4034.	8.7	47
31	Personalized APIs Recommendation With Cognitive Knowledge Mining for Industrial Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 6153-6161.	11.3	47
32	PPO2: Location Privacy-Oriented Task Offloading to Edge Computing Using Reinforcement Learning for Intelligent Autonomous Transport Systems. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 7599-7612.	8.0	47
33	Applying improved particle swarm optimization for dynamic service composition focusing on quality of service evaluations under hybrid networks. International Journal of Distributed Sensor Networks, 2018, 14, 155014771876158.	2.2	46
34	SDTIOA: Modeling the Timed Privacy Requirements of IoT Service Composition: A User Interaction Perspective for Automatic Transformation from BPEL to Timed Automata. Mobile Networks and Applications, 2021, 26, 2272-2297.	3.3	46
35	Probabilistic Model Checking-Based Service Selection Method for Business Process Modeling. International Journal of Software Engineering and Knowledge Engineering, 2017, 27, 897-923.	0.8	41
36	Real-Time Fault Detection for IIoT Facilities Using GBRBM-Based DNN. IEEE Internet of Things Journal, 2020, 7, 5713-5722.	8.7	41

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37	Improved VGG model-based efficient traffic sign recognition for safe driving in 5G scenarios. International Journal of Machine Learning and Cybernetics, 2021, 12, 3069-3080.	3.6	37
38	A Secure Random Key Distribution Scheme Against Node Replication Attacks in Industrial Wireless Sensor Systems. IEEE Transactions on Industrial Informatics, 2020, 16, 2091-2101.	11.3	36
39	Manifold-Learning Based API Recommendation for Mashup Creation. , 2015, , .		35
40	A Transfer Learning Based Super-Resolution Microscopy for Biopsy Slice Images: The Joint Methods Perspective. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 18, 1-1.	3.0	33
41	CariesNet: a deep learning approach for segmentation of multi-stage caries lesion from oral panoramic X-ray image. Neural Computing and Applications, 2023, 35, 16051-16059.	5.6	32
42	A Blockchain-Based Mutual Authentication Scheme for Collaborative Edge Computing. IEEE Transactions on Computational Social Systems, 2022, 9, 146-158.	4.4	31
43	Discriminative Cervical Lesion Detection in Colposcopic Images With Global Class Activation and Local Bin Excitation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1411-1421.	6.3	28
44	Multi-Objective Data Placement for Workflow Management in Cloud Infrastructure Using NSGA-II. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 605-615.	4.9	27
45	Cloud Marginal Resource Allocation: A Decision Support Model. Mobile Networks and Applications, 2020, 25, 1418-1433.	3.3	26
46	Integrated AHP-IOWA, POWA Framework for Ideal Cloud Provider Selection and Optimum Resource Management. IEEE Transactions on Services Computing, 2021, , 1-1.	4.6	25
47	The Joint Method of Triple Attention and Novel Loss Function for Entity Relation Extraction in Small Data-Driven Computational Social Systems. IEEE Transactions on Computational Social Systems, 2022, 9, 1725-1735.	4.4	25
48	Traffic Volume Prediction Based on Multi-Sources GPS Trajectory Data by Temporal Convolutional Network. Mobile Networks and Applications, 2020, 25, 1405-1417.	3.3	24
49	An Information Fusion Approach to Intelligent Traffic Signal Control Using the Joint Methods of Multiagent Reinforcement Learning and Artificial Intelligence of Things. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9335-9345.	8.0	22
50	An Edge Computing Platform for Intelligent Operational Monitoring in Internet Data Centers. IEEE Access, 2019, 7, 133375-133387.	4.2	21
51	Personalization Recommendation Algorithm Based on Trust Correlation Degree and Matrix Factorization. IEEE Access, 2019, 7, 45451-45459.	4.2	21
52	Cloud Risk Management With OWA-LSTM and Fuzzy Linguistic Decision Making. IEEE Transactions on Fuzzy Systems, 2022, 30, 4657-4666.	9.8	19
53	A hierarchical recurrent approach to predict scene graphs from a visualâ€œattentionâ€œoriented perspective. Computational Intelligence, 2019, 35, 496-516.	3.2	17
54	A Dynamic and Scalable User-Centric Route Planning Algorithm Based on Polychromatic Sets Theory. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2762-2772.	8.0	17

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55	Novel Financial Capital Flow Forecast Framework Using Time Series Theory and Deep Learning: A Case Study Analysis of Yuâ€™e Bao Transaction Data. IEEE Access, 2019, 7, 70662-70672.	4.2	16
56	SoProtector: Safeguard Privacy for Native SO Files in Evolving Mobile IoT Applications. IEEE Internet of Things Journal, 2020, 7, 2539-2552.	8.7	16
57	Mobile app recommendation via heterogeneous graph neural network in edge computing. Applied Soft Computing Journal, 2021, 103, 107162.	7.2	16
58	A Prior-mask-guided Few-shot Learning for Skin Lesion Segmentation. Computing (Vienna/New York), 2023, 105, 717-739.	4.8	15
59	Multi-modality fusion learning for the automatic diagnosis of optic neuropathy. Pattern Recognition Letters, 2021, 142, 58-64.	4.2	15
60	Intelligent Traffic Signal Control Based on Reinforcement Learning with State Reduction for Smart Cities. ACM Transactions on Internet Technology, 2021, 21, 1-24.	4.4	15
61	A Low-Latency and Energy-Efficient Multimetric Routing Protocol Based on Network Connectivity in VANET Communication. IEEE Transactions on Green Communications and Networking, 2021, 5, 1761-1776.	5.5	14
62	Computing Power Allocation and Traffic Scheduling for Edge Service Provisioning. , 2020, , .		14
63	Predictive Web Service Monitoring using Probabilistic Model Checking. Applied Mathematics and Information Sciences, 2013, 7, 139-148.	0.5	14
64	Assessing cloud QoS predictions using OWA in neural network methods. Neural Computing and Applications, 2022, 34, 14895-14912.	5.6	14
65	Location-Based Test Case Prioritization for Software Embedded in Mobile Devices Using the Law of Gravitation. Mobile Information Systems, 2019, 2019, 1-14.	0.6	13
66	Categorizing Malware via A Word2Vec-based Temporal Convolutional Network Scheme. Journal of Cloud Computing: Advances, Systems and Applications, 2020, 9, .	3.9	13
67	New Retail Business Analysis and Modeling: A Taobao Case Study. IEEE Transactions on Computational Social Systems, 2019, 6, 1126-1137.	4.4	12
68	Answering Who/When, What, How, Why through Constructing Data Graph, Information Graph, Knowledge Graph and Wisdom Graph. , 2017, , .		12
69	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.	3.0	11
70	BANet: A Balanced Atrous Net Improved From SSD for Autonomous Driving in Smart Transportation. IEEE Sensors Journal, 2021, 21, 25018-25026.	4.7	11
71	Spectral-Based Directed Graph Network for Malware Detection. IEEE Transactions on Network Science and Engineering, 2021, 8, 957-970.	6.4	11
72	LBlockchainE: A Lightweight Blockchain for Edge IoT-Enabled Maritime Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-15.	8.0	11

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73	Applying Probabilistic Model Checking to the Behavior Guidance and Abnormality Detection for A-MCI Patients under Wireless Sensor Network. ACM Transactions on Sensor Networks, 2023, 19, 1-24.	3.6	10
74	Entity-related paths modeling for knowledge base completion. Frontiers of Computer Science, 2020, 14, 1.	2.4	9
75	Incentive-Driven Computation Offloading in Blockchain-Enabled E-Commerce. ACM Transactions on Internet Technology, 2021, 21, 1-19.	4.4	9
76	A Novel GAPG Approach to Automatic Property Generation for Formal Verification: The GAN Perspective. ACM Transactions on Multimedia Computing, Communications and Applications, 2023, 19, 1-22.	4.3	9
77	An algorithm on fairness verification of mobile sink routing in wireless sensor network. Personal and Ubiquitous Computing, 2013, 17, 851-864.	2.8	8
78	Dependence-Aware Edge Intelligent Function Offloading for 6G-Based IoV. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-10.	8.0	8
79	A Heuristic Model-Based Test Prioritization Method for Regression Testing. , 2012, , .		7
80	Preference discovery from wireless social media data in APIs recommendation. Wireless Networks, 2021, 27, 3441-3451.	3.0	7
81	A Partition-Based Partial Personalized Model for Points-of-Interest Recommendations. IEEE Transactions on Computational Social Systems, 2021, 8, 1223-1237.	4.4	7
82	Machine Learning-Driven APPs Recommendation for Energy Optimization in Green Communication and Networking for Connected and Autonomous Vehicles. IEEE Transactions on Green Communications and Networking, 2022, 6, 1543-1552.	5.5	7
83	A Dynamic Planning Framework for QoS-Based Mobile Service Composition Under Cloud-Edge Hybrid Environments. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 58-70.	0.3	6
84	QoS-Aware Web Services Composition Based on HQPSO Algorithm. , 2011, , .		5
85	Research on the dynamic reconfiguration of Web application using two-phase compatibility verification. International Journal of Computer Mathematics, 2013, 90, 2265-2278.	1.8	5
86	Service Reconfiguration Architecture Based on Probabilistic Modeling Checking. , 2014, , .		5
87	Hypomimia Recognition in Parkinson's Disease With Semantic Features. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-20.	4.3	5
88	Tiny FCOS: a Lightweight Anchor-Free Object Detection Algorithm for Mobile Scenarios. Mobile Networks and Applications, 2021, 26, 2219-2229.	3.3	5
89	Forecasting with Machine Learning Techniques. Forecasting, 2021, 3, 868-869.	2.8	5
90	Test Sequence Reduction of Wireless Protocol Conformance Testing to Internet of Things. Security and Communication Networks, 2018, 2018, 1-13.	1.5	4

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91	Sentiment classification with adversarial learning and attention mechanism. Computational Intelligence, 2021, 37, 774-798.	3.2	4
92	Editorial: Machine Learning Used in Biomedical Computing and Intelligence Healthcare, Volume I. Frontiers in Genetics, 2021, 12, 678140.	2.3	4
93	BCI+VR rehabilitation design of closed-loop motor imagery based on the degree of drug addiction. China Communications, 2022, 19, 62-72.	3.2	4
94	A healthcare-oriented mobile question-and-answer system for smart cities. Transactions on Emerging Telecommunications Technologies, 2020, , e4012.	3.9	3
95	ChroNet: A multi-task learning based approach for prediction of multiple chronic diseases. Multimedia Tools and Applications, 0, , 1.	3.9	3
96	Boosting and rectifying few-shot learning prototype network for skin lesion classification based on the internet of medical things. Wireless Networks, 0, , 1.	3.0	3
97	A Corresponding Region Fusion Framework for Multi-modal Cervical Lesion Detection. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2024, , 1-1.	3.0	3
98	Generating Quantitative Test Cases for Probabilistic Timed Web Service Composition. , 2011, , .		2
99	Service Selection Using Service Clusters. , 2015, , .		2
100	Fepchecker: An Automatic Model Checker for Verifying Fairness and Non-Repudiation of Security Protocols in Web Service. International Journal of Software Engineering and Knowledge Engineering, 2016, 26, 563-585.	0.8	2
101	Edge computing: Enabling technologies, applications, and services. Transactions on Emerging Telecommunications Technologies, 2021, 32, .	3.9	2
102	Quantitative Verification of Navigation Model for Reliable Web Applications. , 2011, , .		1
103	Probabilistic Timed Model Checking for Atomic Web Service. , 2011, , .		1
104	A Quantitative Model-Based Selection of Web Service Reconfiguration. , 2013, , .		1
105	Editorial: ACM/Springer Mobile Networks & Applications - Special Issue on Mobile Computing and Software Engineering. Mobile Networks and Applications, 2020, 25, 672-673.	3.3	1
106	Device-Free Indoor Multi-target Tracking in Mobile Environment. Mobile Networks and Applications, 2020, 25, 1195-1207.	3.3	1
107	The throughput optimization for wireless sensor networks adopting interference alignment and successive interference cancellation. Peer-to-Peer Networking and Applications, 2021, 14, 1748-1764.	3.9	1
108	IEEE Access Special Section Editorial: Innovation and Application of Internet of Things and Emerging Technologies in Smart Sensing. IEEE Access, 2021, 9, 76816-76821.	4.2	1

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109	Guest Editorial Optimization of Electric Vehicle Networks and Heterogeneous Networking in Future Smart Cities. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1748-1751.	8.0	1
110	Energy-Efficient Scans by Weaving Indexes Into the Storage Layout in Computing Platforms for Internet of Things. IEEE Transactions on Green Communications and Networking, 2021, 5, 1212-1222.	5.5	1
111	Artificial Intelligence in Collaborative Computing. Mobile Networks and Applications, 2021, 26, 2389-2391.	3.3	1
112	Editorial: Intelligent Collaboration Under Internet of Things and Mobile Edge Computing. Mobile Networks and Applications, 0, , .	3.3	1
113	Research on Web Service Composition Using Probabilistic Abstraction Refinement. , 2011, , .		0
114	An Approach to Modeling and Verifying Router-Based Network. , 2012, , .		0
115	Applying Probabilistic Model Checking to Service Discovery Framework. , 2016, , .		0
116	Consumers Team Detection Model Based on Trust for Multi-Level. Mobile Information Systems, 2019, 2019, 1-10.	0.6	0
117	Editorial: ACM/Springer Mobile Networks & Applications - Special Issue on Mobile Service Computing and Applications. Mobile Networks and Applications, 2020, 25, 373-375.	3.3	0
118	Special issue on recent advances in mobile service computing and applications. Wireless Networks, 2020, 26, 5501-5502.	3.0	0
119	Editorial: Mobile Recommendations for Location-Based Services and Social Networks. Mobile Networks and Applications, 2020, 25, 2172-2173.	3.3	0
120	Location-aware computing to mobile services recommendation: Theory and practice. Journal of Ambient Intelligence and Smart Environments, 2021, 13, 3-4.	1.4	0
121	Integration of satelliteâ€œaerialâ€œterrestrial networks. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4297.	3.9	0
122	Editorial: AI-based mobile multimedia computing for data-smart processing. Computer Networks, 2021, 195, 108197.	5.1	0