

Jianwu Wang

List of Publications by Year in descending order

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94
papers

1,844
citations

516710

16
h-index

345221

36
g-index

100
all docs

100
docs citations

100
times ranked

1806
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of Earth Artificial Intelligence. Computers and Geosciences, 2022, 159, 105034.	4.2	80
2	Machine Learning Based Algorithms for Global Dust Aerosol Detection from Satellite Images: Inter-Comparisons and Evaluation. Remote Sensing, 2021, 13, 456.	4.0	25
3	Team-Based Online Multidisciplinary Education on Big Data + High-Performance Computing + Atmospheric Sciences. Transactions on Computational Science and Computational Intelligence, 2021, , 43-54.	0.3	1
4	Potential trend discovery for highway drivers on spatio-temporal data. Wireless Networks, 2021, 27, 3407-3422.	3.0	3
5	Performance Benchmarking of Parallel Hyperparameter Tuning for Deep Learning Based Tornado Predictions. Big Data Research, 2021, 25, 100212.	4.2	3
6	Benchmarking of Data-Driven Causality Discovery Approaches in the Interactions of Arctic Sea Ice and Atmosphere. Frontiers in Big Data, 2021, 4, 642182.	2.9	10
7	Efficient and Flexible Aggregation and Distribution of MODIS Atmospheric Products Based on Climate Analytics as a Service Framework. Remote Sensing, 2021, 13, 3541.	4.0	2
8	Scalable and Flexible Two-Phase Ensemble Algorithms for Causality Discovery. Big Data Research, 2021, 26, 100252.	4.2	4
9	Tornado Storm Data Synthesization Using Deep Convolutional Generative Adversarial Network. Transactions on Computational Science and Computational Intelligence, 2021, , 383-388.	0.3	0
10	Multi-Task Deep Learning Based Spatiotemporal Arctic Sea Ice Forecasting. , 2021, , .		1
11	Large-Scale Causality Discovery Analytics as a Service. , 2021, , .		0
12	An Approach to Detecting Diabetic Retinopathy Based on Integrated Shallow Convolutional Neural Networks. IEEE Access, 2020, 8, 178552-178562.	4.2	36
13	A Deep Learning Model for Detecting Dust in Earth's Atmosphere from Satellite Remote Sensing Data. , 2020, , .		5
14	Task Allocation in Hybrid Big Data Analytics for Urban IoT Applications. ACM/IMS Transactions on Data Science, 2020, 1, 1-22.	2.0	6
15	Deep Domain Adaptation based Cloud Type Detection using Active and Passive Satellite Data. , 2020, , .		2
16	Image Segmentation for Dust Detection Using Semi-supervised Machine Learning. , 2020, , .		2
17	Adaptive and Efficient Streaming Time Series Forecasting with Lambda Architecture and Spark. , 2020, , .		9
18	Scalable Aggregation Service for Satellite Remote Sensing Data. Lecture Notes in Computer Science, 2020, , 184-199.	1.3	1

#	ARTICLE	IF	CITATIONS
19	Scalable and Hybrid Ensemble-Based Causality Discovery. , 2020, , .		2
20	Flexible and Adaptive Fairness-aware Learning in Non-stationary Data Streams. , 2020, , .		2
21	PEnBayes: A Multi-Layered Ensemble Approach for Learning Bayesian Network Structure from Big Data. Sensors, 2019, 19, 4400.	3.8	5
22	Subgrid variations of the cloud water and droplet number concentration over the tropical ocean: satellite observations and implications for warm rain simulations in climate models. Atmospheric Chemistry and Physics, 2019, 19, 1077-1096.	4.9	26
23	On Fairness-Aware Learning for Non-discriminative Decision-Making. , 2019, , .		8
24	Performance Benchmarking of Data Augmentation and Deep Learning for Tornado Prediction. , 2019, , .		5
25	Parallel Gradient Boosting based Granger Causality Learning. , 2019, , .		3
26	A Hybrid Algorithm for Mineral Dust Detection Using Satellite Data. , 2019, , .		5
27	Hybrid Causality Analysis of ENSO's Global Impacts on Climate Variables Based on Data-Driven Analytics and Climate Model Simulation. Frontiers in Earth Science, 2019, 7, .	1.8	15
28	Benchmarking Discretisation Level of Continuous Attributes: Theoretical and Experimental Approaches. , 2019, , .		0
29	Training Back Propagation Neural Networks in MapReduce on High-Dimensional Big Datasets With Global Evolution. IEEE Access, 2019, 7, 159855-159867.	4.2	1
30	Benchmarking Parallel K-Means Cloud Type Clustering from Satellite Data. Lecture Notes in Computer Science, 2019, , 248-260.	1.3	4
31	Improving Reproducibility in Earth Science Research. Eos, 2019, 100, .	0.1	2
32	An Open Source Cloud-Based NoSQL and NewSQL Database Benchmarking Platform for IoT Data. Lecture Notes in Computer Science, 2019, , 65-77.	1.3	1
33	Latency-Aware Deployment of IoT Services in a Cloud-Edge Environment. Lecture Notes in Computer Science, 2019, , 231-236.	1.3	1
34	Blockchain Based Provenance Sharing of Scientific Workflows. , 2018, , .		20
35	A Periodic Task-Oriented Scheduling Architecture in Cloud Computing. , 2018, , .		3
36	Content-bootstrapped Collaborative Filtering for Medical Article Recommendations. , 2018, , .		8

#	ARTICLE	IF	CITATIONS
37	A Deterministic Self-Organizing Map Approach and its Application on Satellite Data based Cloud Type Classification. , 2018, , .		16
38	Sensor Data Based System-Level Anomaly Prediction for Smart Manufacturing. , 2018, , .		18
39	Curve-Registration-Based Feature Extraction for Predictive Maintenance of Industrial Equipment. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 253-263.	0.3	1
40	Use of On-Demand Cloud Services to Model the Optimization of an Austenitization Furnace. Smart and Sustainable Manufacturing Systems, 2018, 2, 20180024.	0.7	1
41	Machine learning on big data: Opportunities and challenges. Neurocomputing, 2017, 237, 350-361.	5.9	631
42	Service Hyperlink: Modeling and Reusing Partial Process Knowledge by Mining Event Dependencies among Sensor Data Services. , 2017, , .		5
43	A Hybrid Learning Framework for Imbalanced Stream Classification. , 2017, , .		18
44	Zero-Day Attack Identification in Streaming Data Using Semantics and Spark. , 2017, , .		7
45	A comparison of big data application programming approaches: A travel companion case study. , 2017, , .		1
46	Enhancing the MapReduce training of BP neural networks based on local weight matrix evolution. , 2017, , .		2
47	An Approach to Modeling and Discovering Event Correlation for Service Collaboration. Lecture Notes in Computer Science, 2017, , 191-205.	1.3	6
48	Application-driven sensing data reconstruction and selection based on correlation mining and dynamic feedback. , 2016, , .		4
49	Wearable sensor based human posture recognition. , 2016, , .		29
50	A Service-Friendly Approach to Discover Traveling Companions Based on ANPR Data Stream. , 2016, , .		5
51	Kepler + CometCloud: Dynamic Scientific Workflow Execution on Federated Cloud Resources. Procedia Computer Science, 2016, 80, 700-711.	2.0	11
52	A Smart Manufacturing Use Case: Furnace Temperature Balancing in Steam Methane Reforming Process via Kepler Workflows. Procedia Computer Science, 2016, 80, 680-689.	2.0	22
53	Instant Discovery of Moment Companion Vehicles from Big Streaming Traffic Data. , 2015, , .		7
54	A Hybrid Processing System for Large-Scale Traffic Sensor Data. IEEE Access, 2015, 3, 2341-2351.	4.2	18

#	ARTICLE	IF	CITATIONS
55	FlowGate. , 2015, , .		5
56	Big data provenance: Challenges, state of the art and opportunities. , 2015, 2015, 2509-2516.		62
57	Smart Manufacturing. Annual Review of Chemical and Biomolecular Engineering, 2015, 6, 141-160.	6.8	116
58	Discovery of Service HyperLinks with User Feedbacks for Situational Data Mashup. International Journal of Database Theory and Application, 2015, 8, 71-80.	0.2	1
59	A Scalable Data Science Workflow Approach for Big Data Bayesian Network Learning. , 2014, , .		24
60	A Spatio-temporal Parallel Processing System for Traffic Sensory Data. , 2014, , .		3
61	Mashroom+: An Interactive Data Mashup Approach with Uncertainty Handling. Journal of Grid Computing, 2014, 12, 221-244.	3.9	7
62	Enhancing Smart Re-run of Kepler Scientific Workflows Based on Near Optimum Provenance Caching in Cloud. , 2014, , .		3
63	The Second International Workshop on Service and Cloud Based Data Integration (SCDI) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5		
64	An Integrated Processing Platform for Traffic Sensor Data and Its Applications in Intelligent Transportation Systems. , 2014, , .		6
65	Big Data Applications Using Workflows for Data Parallel Computing. Computing in Science and Engineering, 2014, 16, 11-21.	1.2	30
66	Guest Editorsâ€™ Introduction: Special Issue on Service and Cloud Based Data Integration. Journal of Grid Computing, 2014, 12, 187-189.	3.9	0
67	MAAMD: a workflow to standardize meta-analyses and comparison of affymetrix microarray data. BMC Bioinformatics, 2014, 15, 69.	2.6	14
68	Cloud computing in e-Science: research challenges and opportunities. Journal of Supercomputing, 2014, 70, 408-464.	3.6	34
69	Progress towards Automated Kepler Scientific Workflows for Computer-aided Drug Discovery and Molecular Simulations. Procedia Computer Science, 2014, 29, 1745-1755.	2.0	6
70	Deploying Kepler Workflows as Services on a Cloud Infrastructure for Smart Manufacturing. Procedia Computer Science, 2014, 29, 2254-2259.	2.0	32
71	Workflow as a Service in the Cloud: Architecture and Scheduling Algorithms. Procedia Computer Science, 2014, 29, 546-556.	2.0	43
72	EPIK-a Workflow for Electron Tomography in Kepler1. Procedia Computer Science, 2014, 29, 2295-2305.	2.0	9

#	ARTICLE	IF	CITATIONS
73	Situation-Aware Data Service Composition Based on Service Hyperlinks. Lecture Notes in Computer Science, 2014, , 153-167.	1.3	1
74	Approaches to Distributed Execution of Scientific Workflows in Kepler. Fundamenta Informaticae, 2013, 128, 281-302.	0.4	13
75	Challenges and approaches for distributed workflow-driven analysis of large-scale biological data. , 2012, , .		19
76	A Framework for Distributed Data-Parallel Execution in the Kepler Scientific Workflow System. Procedia Computer Science, 2012, 9, 1620-1629.	2.0	18
77	Early Cloud Experiences with the Kepler Scientific Workflow System. Procedia Computer Science, 2012, 9, 1630-1634.	2.0	24
78	A Unified Data and Service Integration Approach for Dynamic Business Collaboration. , 2012, , .		2
79	MAAMD: A Workflow to Standardize Meta-Analyses of Affymetrix Microarray Data. , 2012, , .		0
80	An Item-Targeted User Similarity Method for Data Service Recommendation. , 2012, , .		2
81	Provenance for MapReduce-based data-intensive workflows. , 2011, , .		33
82	A Physical and Virtual Compute Cluster Resource Load Balancing Approach to Data-Parallel Scientific Workflow Scheduling. , 2011, , .		5
83	Facilitating e-Science Discovery Using Scientific Workflows on the Grid. Computer Communications and Networks, 2011, , 353-382.	0.8	5
84	Theoretical enzyme design using the Kepler scientific workflows on the Grid. Procedia Computer Science, 2010, 1, 1175-1184.	2.0	7
85	Kepler + Hadoop. , 2009, , .		79
86	Accelerating Parameter Sweep Workflows by Utilizing Ad-hoc Network Computing Resources: An Ecological Example. , 2009, , .		9
87	A Business-Level Service Model Supporting End-User Customization. Lecture Notes in Computer Science, 2009, , 295-303.	1.3	2
88	A High-Level Distributed Execution Framework for Scientific Workflows. , 2008, , .		8
89	An Approach to Domain-Specific Reuse in Service-Oriented Environments. Lecture Notes in Computer Science, 2008, , 221-232.	1.3	9
90	Personalized Active Service Spaces for End-User Service Composition. , 2006, , .		12

#	ARTICLE	IF	CITATIONS
91	A Reflective Approach to Keeping Business Characteristics in Business-End Service Composition. Lecture Notes in Computer Science, 2004, , 479-490.	1.3	0
92	An Approach to Dynamically Reconfiguring Service-Oriented Applications from a Business Perspective. Lecture Notes in Computer Science, 2004, , 357-368.	1.3	3
93	CAFISE: An approach to enabling adaptive configuration of service grid applications. Journal of Computer Science and Technology, 2003, 18, 484-494.	1.5	19
94	A Service Modeling Approach with Business-Level Reusability and Extensibility. , 0, , .		10