

Rashid Mehmood

List of Publications by Year in descending order

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131
papers

3,759
citations

172207

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168136

53
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136
all docs

136
docs citations

136
times ranked

2665
citing authors

#	ARTICLE	IF	CITATIONS
1	Data Fusion and IoT for Smart Ubiquitous Environments: A Survey. IEEE Access, 2017, 5, 9533-9554.	2.6	300
2	Mobile Cloud Computing Model and Big Data Analysis for Healthcare Applications. IEEE Access, 2016, 4, 6171-6180.	2.6	225
3	UbeHealth: A Personalized Ubiquitous Cloud and Edge-Enabled Networked Healthcare System for Smart Cities. IEEE Access, 2018, 6, 32258-32285.	2.6	181
4	Analysis of Eight Data Mining Algorithms for Smarter Internet of Things (IoT). Procedia Computer Science, 2016, 98, 437-442.	1.2	142
5	A review and taxonomy of wind and solar energy forecasting methods based on deep learning. Energy and AI, 2021, 4, 100060.	5.8	136
6	Exploring the influence of big data on city transport operations: a Markovian approach. International Journal of Operations and Production Management, 2017, 37, 75-104.	3.5	123
7	Can Building "Artificially Intelligent Cities" Safeguard Humanity from Natural Disasters, Pandemics, and Other Catastrophes? An Urban Scholar's Perspective. Sensors, 2020, 20, 2988.	2.1	119
8	UTiLearn: A Personalised Ubiquitous Teaching and Learning System for Smart Societies. IEEE Access, 2017, 5, 2615-2635.	2.6	113
9	Artificial Intelligence Technologies and Related Urban Planning and Development Concepts: How Are They Perceived and Utilized in Australia?. Journal of Open Innovation: Technology, Market, and Complexity, 2020, 6, 187.	2.6	90
10	Big Data Logistics: A health-care Transport Capacity Sharing Model. Procedia Computer Science, 2015, 64, 1107-1114.	1.2	84
11	Intelligent disaster management system based on cloud-enabled vehicular networks. , 2011, , .		81
12	Responsible Urban Innovation with Local Government Artificial Intelligence (AI): A Conceptual Framework and Research Agenda. Journal of Open Innovation: Technology, Market, and Complexity, 2021, 7, 71.	2.6	81
13	Green Artificial Intelligence: Towards an Efficient, Sustainable and Equitable Technology for Smart Cities and Futures. Sustainability, 2021, 13, 8952.	1.6	78
14	Distributed Artificial Intelligence-as-a-Service (DAIaaS) for Smarter IoE and 6G Environments. Sensors, 2020, 20, 5796.	2.1	73
15	Sehaa: A Big Data Analytics Tool for Healthcare Symptoms and Diseases Detection Using Twitter, Apache Spark, and Machine Learning. Applied Sciences (Switzerland), 2020, 10, 1398.	1.3	69
16	Enabling Next Generation Logistics and Planning for Smarter Societies. Procedia Computer Science, 2017, 109, 1122-1127.	1.2	68
17	Smarter Traffic Prediction Using Big Data, In-Memory Computing, Deep Learning and GPUs. Sensors, 2019, 19, 2206.	2.1	67
18	Greener and Smarter Phones for Future Cities: Characterizing the Impact of GPS Signal Strength on Power Consumption. IEEE Access, 2016, 4, 858-868.	2.6	65

#	ARTICLE	IF	CITATIONS
19	A smart disaster management system for future cities. , 2014, , .		55
20	Enterprise systems: are we ready for future sustainable cities. Supply Chain Management, 2015, 20, 264-283.	3.7	53
21	COVID-19: Detecting Government Pandemic Measures and Public Concerns from Twitter Arabic Data Using Distributed Machine Learning. International Journal of Environmental Research and Public Health, 2021, 18, 282.	1.2	52
22	Computational Markovian analysis of large systems. Journal of Manufacturing Technology Management, 2011, 22, 804-817.	3.3	49
23	Exploring future cityscapes through urban logistics prototyping: a technical viewpoint. Supply Chain Management, 2015, 20, 341-352.	3.7	46
24	Enabling Smarter Societies through Mobile Big Data Fogs and Clouds. Procedia Computer Science, 2017, 109, 1128-1133.	1.2	44
25	Rapid Transit Systems: Smarter Urban Planning Using Big Data, In-Memory Computing, Deep Learning, and GPUs. Sustainability, 2019, 11, 2736.	1.6	41
26	Iktishaf+: A Big Data Tool with Automatic Labeling for Road Traffic Social Sensing and Event Detection Using Distributed Machine Learning. Sensors, 2021, 21, 2993.	2.1	41
27	Iktishaf: a Big Data Road-Traffic Event Detection Tool Using Twitter and Spark Machine Learning. Mobile Networks and Applications, 2023, 28, 603-618.	2.2	36
28	iResponse: An AI and IoT-Enabled Framework for Autonomous COVID-19 Pandemic Management. Sustainability, 2021, 13, 3797.	1.6	36
29	Autonomic Transport Management Systemsâ€™Enabler for Smart Cities, Personalized Medicine, Participation and Industry Grid/Industry 4.0. Studies in Systems, Decision and Control, 2016, , 3-35.	0.8	34
30	A Survey on Security in Vehicular Ad Hoc Networks. Lecture Notes in Computer Science, 2013, , 59-74.	1.0	33
31	UbiPriSEQâ€™Deep Reinforcement Learning to Manage Privacy, Security, Energy, and QoS in 5G IoT HetNets. Applied Sciences (Switzerland), 2020, 10, 7120.	1.3	33
32	Multimedia applications over metropolitan area networks (MANs). Journal of Network and Computer Applications, 2011, 34, 1518-1529.	5.8	32
33	Future Networked Healthcare Systems. Advances in Web Technologies and Engineering Book Series, 2015, , 531-558.	0.4	30
34	Cloudlet-Based Mobile Cloud Computing for Healthcare Applications. , 2016, , .		29
35	A Quantitative Model of Grid Systems Performance in Healthcare Organisations. , 2010, , .		28
36	Enterprise systems and performance of future city logistics. Production Planning and Control, 2016, 27, 500-513.	5.8	28

#	ARTICLE	IF	CITATIONS
37	TAAWUN: a Decision Fusion and Feature Specific Road Detection Approach for Connected Autonomous Vehicles. <i>Mobile Networks and Applications</i> , 2023, 28, 636-652.	2.2	25
38	ICDMS: An Intelligent Cloud Based Disaster Management System for Vehicular Networks. <i>Lecture Notes in Computer Science</i> , 2012, , 40-56.	1.0	23
39	Musawah: A Data-Driven AI Approach and Tool to Co-Create Healthcare Services with a Case Study on Cancer Disease in Saudi Arabia. <i>Sustainability</i> , 2022, 14, 3313.	1.6	23
40	A Symbolic Out-of-Core Solution Method for Markov Models. <i>Electronic Notes in Theoretical Computer Science</i> , 2002, 68, 589-604.	0.9	22
41	A Fog-Augmented Machine Learning based SMS Spam Detection and Classification System. , 2020, , .		22
42	Disaster Management in Smart Cities by Forecasting Traffic Plan Using Deep Learning and GPUs. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2018, , 139-154.	0.2	22
43	Detecting Natural Hazard-Related Disaster Impacts with Social Media Analytics: The Case of Australian States and Territories. <i>Sustainability</i> , 2022, 14, 810.	1.6	22
44	Out-of-Core Solution of Large Linear Systems of Equations Arising from Stochastic Modelling. <i>Lecture Notes in Computer Science</i> , 2002, , 135-151.	1.0	20
45	The strategic prototype "crime-sourcing" and the science/science fiction behind it. <i>Technological Forecasting and Social Change</i> , 2014, 84, 86-92.	6.2	19
46	SURAA: A Novel Method and Tool for Loadbalanced and Coalesced SpMV Computations on GPUs. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 947.	1.3	19
47	Road Traffic Event Detection Using Twitter Data, Machine Learning, and Apache Spark. , 2019, , .		19
48	Imtidad: A Reference Architecture and a Case Study on Developing Distributed AI Services for Skin Disease Diagnosis over Cloud, Fog and Edge. <i>Sensors</i> , 2022, 22, 1854.	2.1	19
49	Analysis of Tweets in Arabic Language for Detection of Road Traffic Conditions. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2018, , 98-110.	0.2	18
50	An intelligent disaster management system based evacuation strategies. , 2014, , .		17
51	Hybrid Statistical and Machine Learning Methods for Road Traffic Prediction: A Review and Tutorial. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020, , 115-133.	0.9	17
52	On Discovering Road Traffic Information Using Virtual Reality Simulations. , 2009, , .		16
53	ZAKI+: A Machine Learning Based Process Mapping Tool for SpMV Computations on Distributed Memory Architectures. <i>IEEE Access</i> , 2019, 7, 81279-81296.	2.6	16
54	Big Data Tools, Technologies, and Applications: A Survey. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020, , 453-490.	0.9	16

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55	An Ensemble Machine and Deep Learning Model for Risk Prediction in Aviation Systems. , 2020, , .		16
56	Big Data and HPC Convergence: The Cutting Edge and Outlook. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 11-26.	0.2	16
57	Transportation Evacuation Strategies Based on VANET Disaster Management System. Procedia Economics and Finance, 2014, 18, 352-360.	0.6	15
58	Automatic Event Detection in Smart Cities Using Big Data Analytics. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 111-122.	0.2	15
59	D2TFRS: An Object Recognition Method for Autonomous Vehicles Based on RGB and Spatial Values of Pixels. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 155-168.	0.2	15
60	ZAKI: A Smart Method and Tool for Automatic Performance Optimization of Parallel SpMV Computations on Distributed Memory Machines. Mobile Networks and Applications, 2023, 28, 744-763.	2.2	15
61	The Role of Big Data and Twitter Data Analytics in Healthcare Supply Chain Management. EAI/Springer Innovations in Communication and Computing, 2020, , 267-279.	0.9	15
62	Serial Disk-Based Analysis of Large Stochastic Models. Lecture Notes in Computer Science, 2004, , 230-255.	1.0	15
63	Dual-processor parallelisation of symbolic probabilistic model checking. , 0, , .		14
64	Framework for an Autonomic Transport System in Smart Cities. Cybernetics and Information Technologies, 2015, 15, 50-62.	0.4	14
65	Extraction of Naturalistic Driving Patterns with Geographic Information Systems. Mobile Networks and Applications, 2023, 28, 619-635.	2.2	14
66	Multimedia Ad Hoc Networks: Performance Analysis. , 2008, , .		13
67	A scalable multimedia QoS architecture for ad hoc networks. Multimedia Tools and Applications, 2011, 54, 551-568.	2.6	13
68	Location Privacy in Smart Cities Era. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 123-138.	0.2	13
69	LocPriS: A Security and Privacy Preserving Location Based Services Development Framework. Lecture Notes in Computer Science, 2010, , 566-575.	1.0	13
70	LidSonic for Visually Impaired: Green Machine Learning-Based Assistive Smart Glasses with Smart App and Arduino. Electronics (Switzerland), 2022, 11, 1076.	1.8	13
71	Grid-level computing needs pervasive debugging. , 2005, , .		12
72	Towards a Semantically Enriched Computational Intelligence (SECI) Framework for Smart Farming. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 247-257.	0.2	12

#	ARTICLE	IF	CITATIONS
73	Novel congestion avoidance scheme for Internet of Drones. Computer Communications, 2021, 169, 202-210.	3.1	12
74	Discovering Urban Governance Parameters for Online Learning in Saudi Arabia During COVID-19 Using Topic Modeling of Twitter Data. Frontiers in Sustainable Cities, 0, 4, .	1.2	12
75	Sentiment Analysis of Arabic Tweets in Smart Cities: A Review of Saudi Dialect. , 2019, , .		11
76	Big Data and HPC Convergence for Smart Infrastructures: A Review and Proposed Architecture. EAI/Springer Innovations in Communication and Computing, 2020, , 561-586.	0.9	11
77	HCDSR: A Hierarchical Clustered Fault Tolerant Routing Technique for IoT-Based Smart Societies. EAI/Springer Innovations in Communication and Computing, 2020, , 609-628.	0.9	11
78	A data Mirroring technique for SANs in a Metro WDM sectioned ring. , 2008, , .		10
79	Sentiment Analysis of Arabic Tweets for Road Traffic Congestion and Event Detection. EAI/Springer Innovations in Communication and Computing, 2020, , 37-54.	0.9	10
80	Performance Analysis of Sparse Matrix-Vector Multiplication (SpMV) on Graphics Processing Units (GPUs). Electronics (Switzerland), 2020, 9, 1675.	1.8	10
81	DIESEL: A novel deep learning-based tool for SpMV computations and solving sparse linear equation systems. Journal of Supercomputing, 2021, 77, 6313-6355.	2.4	10
82	Big Data Enabled Healthcare Supply Chain Management: Opportunities and Challenges. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 207-215.	0.2	10
83	DNA Profiling Methods and Tools: A Review. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 216-231.	0.2	10
84	Intelligent Mobility Systems: Some Socio-technical Challenges and Opportunities. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 140-152.	0.2	10
85	Deep Journalism and DeepJournal V1.0: A Data-Driven Deep Learning Approach to Discover Parameters for Transportation. Sustainability, 2022, 14, 5711.	1.6	10
86	Enabling Reliable and Resilient IoT Based Smart City Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 169-184.	0.2	9
87	Comparison of Decision Trees and Deep Learning for Object Classification in Autonomous Driving. EAI/Springer Innovations in Communication and Computing, 2020, , 135-158.	0.9	9
88	A Smart Disaster Management System for Future Cities Using Deep Learning, GPUs, and In-Memory Computing. EAI/Springer Innovations in Communication and Computing, 2020, , 159-184.	0.9	9
89	Performance Evaluation of a Metro WDM Multi-channel Ring Network with Variable-length Packets. , 2007, , .		8
90	End to End Wireless Multimedia Service Modelling over a Metropolitan Area Network. , 2009, , .		8

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91	A Novel Hybrid Textual-Graphical Authentication Scheme With Better Security, Memorability, and Usability. IEEE Access, 2021, 9, 51294-51312.	2.6	8
92	Localization to Enhance Security and Services in Wi-Fi Networks under Privacy Constraints. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 175-188.	0.2	8
93	Future Networked Healthcare Systems. , 2016, , 2429-2457.		8
94	A Mirroring Strategy for SANs in a Metro WDM Sectioned Ring Architecture under Different Traffic Scenarios. Journal of Optical Communications, 2008, 29, .	4.0	7
95	Intra-vehicular verification and control: A two-pronged approach. , 2010, , .		7
96	Parallel Shortest Path Graph Computations of United States Road Network Data on Apache Spark. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 323-336.	0.2	7
97	Parallel Shortest Path Big Data Graph Computations of US Road Network Using Apache Spark: Survey, Architecture, and Evaluation. EAI/Springer Innovations in Communication and Computing, 2020, , 185-214.	0.9	7
98	Big Data for Smart Infrastructure Design: Opportunities and Challenges. EAI/Springer Innovations in Communication and Computing, 2020, , 491-518.	0.9	7
99	Performance Characteristics for Sparse Matrix-Vector Multiplication on GPUs. EAI/Springer Innovations in Communication and Computing, 2020, , 409-426.	0.9	6
100	A Survey of Methods and Tools for Large-Scale DNA Mixture Profiling. EAI/Springer Innovations in Communication and Computing, 2020, , 217-248.	0.9	6
101	Intra-vehicular verification and control: a two-pronged approach. International Journal of Vehicle Information and Communication Systems, 2011, 2, 248.	0.1	5
102	In-Memory Deep Learning Computations on GPUs for Prediction of Road Traffic Incidents Using Big Data Fusion. EAI/Springer Innovations in Communication and Computing, 2020, , 79-114.	0.9	5
103	Software Engineering for IoT-Driven Data Analytics Applications. IEEE Access, 2021, 9, 48197-48217.	2.6	5
104	Automatic Detection and Validation of Smart City Events Using HPC and Apache Spark Platforms. EAI/Springer Innovations in Communication and Computing, 2020, , 55-78.	0.9	5
105	Towards Standardization of In-Car Sensors. Lecture Notes in Computer Science, 2011, , 216-223.	1.0	5
106	Video QoS Analysis over Wi-Fi Networks. , 2013, , 439-480.		5
107	Cross-Layer Multimedia QoS Provisioning over Ad Hoc Networks. , 0, , 460-499.		5
108	TAWSEEM: A Deep-Learning-Based Tool for Estimating the Number of Unknown Contributors in DNA Profiling. Electronics (Switzerland), 2022, 11, 548.	1.8	5

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109	Editorial: Smart Societies, Infrastructure, Systems, Technologies, and Applications. Mobile Networks and Applications, 0, , 1.	2.2	5
110	A Scalable Provisioning and Routing Scheme for Multimedia QoS over Ad Hoc Networks. Lecture Notes in Computer Science, 2009, , 131-142.	1.0	4
111	Parallel Sparse Matrix Vector Multiplication on Intel MIC: Performance Analysis. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 306-322.	0.2	4
112	DNA Profiling: An Investigation of Six Machine Learning Algorithms for Estimating the Number of Contributors in DNA Mixtures. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.5	4
113	Enterprise Systems for Networked Smart Cities. EAI/Springer Innovations in Communication and Computing, 2020, , 1-33.	0.9	3
114	Hudhour: A Fuzzy Logic based Smart Fingerprint Attendance System. , 2020, , .		3
115	The Interaction of Production and Consumption in the News Media Social Space. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 229-239.	0.2	3
116	Data Mirroring for Metro WDM Storage Area Networks. , 2007, , .		2
117	Software Quality in the Era of Big Data, IoT and Smart Cities. EAI/Springer Innovations in Communication and Computing, 2020, , 519-536.	0.9	2
118	Open Source and Open Data Licenses in the Smart Infrastructure Era: Review and License Selection Frameworks. EAI/Springer Innovations in Communication and Computing, 2020, , 537-559.	0.9	2
119	Loadbalancing on Parallel Heterogeneous Architectures: Spin-image Algorithm on CPU and MIC. , 2018, , .		2
120	Multi-component Teleservice Model for Multimedia Applications. , 2008, , .		1
121	Multi-component multimedia resource optimisation for 3G and beyond. International Journal of Internet Protocol Technology, 2009, 4, 4.	0.2	1
122	A Smart Pain Management System Using Big Data Computing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 232-246.	0.2	1
123	Software Architecture for Mobile Cloud Computing Systems. Future Internet, 2019, 11, 238.	2.4	1
124	HPC-Smart Infrastructures: A Review and Outlook on Performance Analysis Methods and Tools. EAI/Springer Innovations in Communication and Computing, 2020, , 427-451.	0.9	1
125	Performance Evaluation of Jacobi Iterative Solution for Sparse Linear Equation System on Multicore and Manycore Architectures. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 296-305.	0.2	1
126	A Framework for Faster Porting of Scientific Applications Between Heterogeneous Clouds. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 27-43.	0.2	1

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127	Open-VSeSeMe: A Middleware for Efficient Vehicular Sensor Processing. Lecture Notes in Computer Science, 2013, , 185-196.	1.0	1
128	Futuretech 2010- SH 2010 Welcome Message from the Workshop Organizers. , 2010, , .		0
129	SelecWeb: A Software Tool for Automatic Selection of Web Frameworks. EAI/Springer Innovations in Communication and Computing, 2020, , 329-346.	0.9	0
130	Power Optimization of CFD Applications on Heterogeneous Architectures. International Journal of Computer Applications, 2017, 166, 1-6.	0.2	0
131	Loop Block Profiling with Performance Prediction. International Journal of Computer Trends and Technology, 2017, 47, 199-204.	0.1	0