Rashid Mehmood

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

127 papers	2,462 citations	27 h-index	44 g-index
136 ext. papers	3,170 ext. citations	2 avg, IF	6.08 L-index

#	Paper	IF	Citations
127	Detecting Natural Hazard-Related Disaster Impacts with Social Media Analytics: The Case of Australian States and Territories. *Sustainability*, **2022**, 14, 810	3.6	8
126	Imtidad: A Reference Architecture and a Case Study on Developing Distributed AI Services for Skin Disease Diagnosis over Cloud, Fog and Edge.. *Sensors*, **2022**, 22,	3.8	2
125	TAWSEEM: A Deep-Learning-Based Tool for Estimating the Number of Unknown Contributors in DNA Profiling. *Electronics (Switzerland)*, **2022**, 11, 548	2.6	0
124	Musawah: A Data-Driven AI Approach and Tool to Co-Create Healthcare Services with a Case Study on Cancer Disease in Saudi Arabia. *Sustainability*, **2022**, 14, 3313	3.6	5
123	LidSonic for Visually Impaired: Green Machine Learning-Based Assistive Smart Glasses with Smart App and Arduino. *Electronics (Switzerland)*, **2022**, 11, 1076	2.6	0
122	Deep Journalism and DeepJournal V1.0: A Data-Driven Deep Learning Approach to Discover Parameters for Transportation. *Sustainability*, **2022**, 14, 5711	3.6	1
121	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,	1.7	2
120	iResponse: An AI and IoT-Enabled Framework for Autonomous COVID-19 Pandemic Management. *Sustainability*, **2021**, 13, 3797	3.6	16
119	Novel congestion avoidance scheme for Internet of Drones. *Computer Communications*, **2021**, 169, 202-214	3.0	6
118	Iktishaf+: A Big Data Tool with Automatic Labeling for Road Traffic Social Sensing and Event Detection Using Distributed Machine Learning. *Sensors*, **2021**, 21,	3.8	15
117	A review and taxonomy of wind and solar energy forecasting methods based on deep learning. *Energy and AI*, **2021**, 4, 100060	12.6	32
116	DIESEL: A novel deep learning-based tool for SpMV computations and solving sparse linear equation systems. *Journal of Supercomputing*, **2021**, 77, 6313-6355	2.5	3
115	Software Engineering for IoT-Driven Data Analytics Applications. *IEEE Access*, **2021**, 9, 48197-48217	3.5	3
114	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	3.7	28
113	Green Artificial Intelligence: Towards an Efficient, Sustainable and Equitable Technology for Smart Cities and Futures. *Sustainability*, **2021**, 13, 8952	3.6	20
112	A Novel Hybrid Textual-Graphical Authentication Scheme With Better Security, Memorability, and Usability. *IEEE Access*, **2021**, 9, 51294-51312	3.5	0
111	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,	4.6	22

110	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	3.7	44
109	UbiPriSEQDeep Reinforcement Learning to Manage Privacy, Security, Energy, and QoS in 5G IoT HetNets. *Applied Sciences (Switzerland)*, **2020**, 10, 7120	2.6	17
108	Performance Analysis of Sparse Matrix-Vector Multiplication (SpMV) on Graphics Processing Units (GPUs). *Electronics (Switzerland)*, **2020**, 9, 1675	2.6	3
107	Can Building "Artificially Intelligent Cities" Safeguard Humanity from Natural Disasters, Pandemics, and Other Catastrophes? An Urban Scholar's Perspective. *Sensors*, **2020**, 20,	3.8	71
106	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	2.6	36
105	An Ensemble Machine and Deep Learning Model for Risk Prediction in Aviation Systems **2020**,		6
104	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	0.6	1
103	Automatic Detection and Validation of Smart City Events Using HPC and Apache Spark Platforms. *EAI/Springer Innovations in Communication and Computing*, **2020**, 55-78	0.6	4
102	A Survey of Methods and Tools for Large-Scale DNA Mixture Profiling. *EAI/Springer Innovations in Communication and Computing*, **2020**, 217-248	0.6	5
101	A Framework for Preserving Location Privacy for Continuous Queries. *Advances in Intelligent Systems and Computing*, **2020**, 819-832	0.4	2
100	A Fog-Augmented Machine Learning based SMS Spam Detection and Classification System **2020**,		6
99	Hudhour: A Fuzzy Logic based Smart Fingerprint Attendance System **2020**,		1
98	Extraction of Naturalistic Driving Patterns with Geographic Information Systems. *Mobile Networks and Applications*, **2020**, 1	2.9	8
97	Distributed Artificial Intelligence-as-a-Service (DAIaaS) for Smarter IoE and 6G Environments. *Sensors*, **2020**, 20,	3.8	33
96	Iktishaf: a Big Data Road-Traffic Event Detection Tool Using Twitter and Spark Machine Learning. *Mobile Networks and Applications*, **2020**, 1	2.9	23
95	HPC-Smart Infrastructures: A Review and Outlook on Performance Analysis Methods and Tools. *EAI/Springer Innovations in Communication and Computing*, **2020**, 427-451	0.6	0
94	Big Data Tools, Technologies, and Applications: A Survey. *EAI/Springer Innovations in Communication and Computing*, **2020**, 453-490	0.6	7
93	Software Quality in the Era of Big Data, IoT and Smart Cities. *EAI/Springer Innovations in Communication and Computing*, **2020**, 519-536	0.6	0

92	SelecWeb: A Software Tool for Automatic Selection of Web Frameworks. *EAI/Springer Innovations in Communication and Computing*, **2020**, 329-346	0.6	
91	Hybrid Statistical and Machine Learning Methods for Road Traffic Prediction: A Review and Tutorial. *EAI/Springer Innovations in Communication and Computing*, **2020**, 115-133	0.6	10
90	Comparison of Decision Trees and Deep Learning for Object Classification in Autonomous Driving. *EAI/Springer Innovations in Communication and Computing*, **2020**, 135-158	0.6	8
89	The Role of Big Data and Twitter Data Analytics in Healthcare Supply Chain Management. *EAI/Springer Innovations in Communication and Computing*, **2020**, 267-279	0.6	10
88	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	0.6	6
87	Sentiment Analysis of Arabic Tweets for Road Traffic Congestion and Event Detection. *EAI/Springer Innovations in Communication and Computing*, **2020**, 37-54	0.6	8
86	Parallel Iterative Solution of Large Sparse Linear Equation Systems on the Intel MIC Architecture. *EAI/Springer Innovations in Communication and Computing*, **2020**, 377-407	0.6	6
85	Enterprise Systems for Networked Smart Cities. *EAI/Springer Innovations in Communication and Computing*, **2020**, 1-33	0.6	1
84	Big Data for Smart Infrastructure Design: Opportunities and Challenges. *EAI/Springer Innovations in Communication and Computing*, **2020**, 491-518	0.6	4
83	Big Data and HPC Convergence for Smart Infrastructures: A Review and Proposed Architecture. *EAI/Springer Innovations in Communication and Computing*, **2020**, 561-586	0.6	8
82	HCDSR: A Hierarchical Clustered Fault Tolerant Routing Technique for IoT-Based Smart Societies. *EAI/Springer Innovations in Communication and Computing*, **2020**, 609-628	0.6	5
81	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	0.6	3
80	Performance Characteristics for Sparse Matrix-Vector Multiplication on GPUs. *EAI/Springer Innovations in Communication and Computing*, **2020**, 409-426	0.6	4
79	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	0.6	6
78	Smarter Traffic Prediction Using Big Data, In-Memory Computing, Deep Learning and GPUs. *Sensors*, **2019**, 19,	3.8	44
77	Rapid Transit Systems: Smarter Urban Planning Using Big Data, In-Memory Computing, Deep Learning, and GPUs. *Sustainability*, **2019**, 11, 2736	3.6	25
76	SURAA: A Novel Method and Tool for Loadbalanced and Coalesced SpMV Computations on GPUs. *Applied Sciences (Switzerland)*, **2019**, 9, 947	2.6	13
75	TAAWUN: a Decision Fusion and Feature Specific Road Detection Approach for Connected Autonomous Vehicles. *Mobile Networks and Applications*, **2019**, 1	2.9	17

74	ZAKI: A Smart Method and Tool for Automatic Performance Optimization of Parallel SpMV Computations on Distributed Memory Machines. *Mobile Networks and Applications*, **2019**, 1	2.9	9
73	Sentiment Analysis of Arabic Tweets in Smart Cities: A Review of Saudi Dialect **2019**,		4
72	ZAKI+: A Machine Learning Based Process Mapping Tool for SpMV Computations on Distributed Memory Architectures. *IEEE Access*, **2019**, 7, 81279-81296	3.5	9
71	Road Traffic Event Detection Using Twitter Data, Machine Learning, and Apache Spark **2019**,		8
70	Software Architecture for Mobile Cloud Computing Systems. *Future Internet*, **2019**, 11, 238	3.3	
69	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	11
68	Analysis of Tweets in Arabic Language for Detection of Road Traffic Conditions. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2018**, 98-110	0.2	16
67	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	0
66	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	9
65	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	3
64	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	10
63	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
62	. *IEEE Access*, **2018**, 6, 32258-32285	3.5	132
61	Location Privacy in Smart Cities Era. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2018**, 123-138	0.2	9
60	Disaster Management in Smart Cities by Forecasting Traffic Plan Using Deep Learning and GPUs. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2018**, 139-154	0.2	18
59	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	8
58	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	9
57	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

56	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	3
55	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	13
54	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
53	Exploring the influence of big data on city transport operations: a Markovian approach. *International Journal of Operations and Production Management*, **2017**, 37, 75-104	6.8	95
52	UTiLearn: A Personalised Ubiquitous Teaching and Learning System for Smart Societies. *IEEE Access*, **2017**, 5, 2615-2635	3.5	89
51	Data Fusion and IoT for Smart Ubiquitous Environments: A Survey. *IEEE Access*, **2017**, 5, 9533-9554	3.5	214
50	Enabling Smarter Societies through Mobile Big Data Fogs and Clouds. *Procedia Computer Science*, **2017**, 109, 1128-1133	1.6	42
49	Enabling Next Generation Logistics and Planning for Smarter Societies. *Procedia Computer Science*, **2017**, 109, 1122-1127	1.6	57
48	Autonomic Transport Management Systems–Enabler for Smart Cities, Personalized Medicine, Participation and Industry Grid/Industry 4.0. *Studies in Systems, Decision and Control*, **2016**, 3-35	0.8	31
47	Greener and Smarter Phones for Future Cities: Characterizing the Impact of GPS Signal Strength on Power Consumption. *IEEE Access*, **2016**, 4, 858-868	3.5	44
46	Future Networked Healthcare Systems **2016**, 2429-2457		8
45	Cloudlet-Based Mobile Cloud Computing for Healthcare Applications **2016**,		24
44	Enterprise systems and performance of future city logistics. *Production Planning and Control*, **2016**, 27, 500-513	4.3	24
43	Analysis of Eight Data Mining Algorithms for Smarter Internet of Things (IoT). *Procedia Computer Science*, **2016**, 98, 437-442	1.6	109
42	Mobile Cloud Computing Model and Big Data Analysis for Healthcare Applications. *IEEE Access*, **2016**, 4, 6171-6180	3.5	159
41	Big Data Logistics: A health-care Transport Capacity Sharing Model. *Procedia Computer Science*, **2015**, 64, 1107-1114	1.6	71
40	Framework for an Autonomic Transport System in Smart Cities. *Cybernetics and Information Technologies*, **2015**, 15, 50-62	1.3	11
39	Exploring future cityscapes through urban logistics prototyping: a technical viewpoint. *Supply Chain Management*, **2015**, 20, 341-352	10	30

38	Enterprise systems: are we ready for future sustainable cities. *Supply Chain Management*, **2015**, 20, 264-283	3.3	44
37	Future Networked Healthcare Systems. *Advances in Web Technologies and Engineering Book Series*, **2015**, 531-558	0.2	28
36	A smart disaster management system for future cities **2014**,		42
35	**2014**,		15
34	The strategic prototype □rime-sourcing□and the science/science fiction behind it. *Technological Forecasting and Social Change*, **2014**, 84, 86-92	9.5	17
33	Transportation Evacuation Strategies Based on VANET Disaster Management System. *Procedia Economics and Finance*, **2014**, 18, 352-360		9
32	A Survey on Security in Vehicular Ad Hoc Networks. *Lecture Notes in Computer Science*, **2013**, 59-74	0.9	29
31	Video QoS Analysis over Wi-Fi Networks **2013**, 439-480		5
30	Open-VSeSeMe: A Middleware for Efficient Vehicular Sensor Processing. *Lecture Notes in Computer Science*, **2013**, 185-196	0.9	1
29	ICDMS: An Intelligent Cloud Based Disaster Management System for Vehicular Networks. *Lecture Notes in Computer Science*, **2012**, 40-56	0.9	21
28	Intelligent disaster management system based on cloud-enabled vehicular networks **2011**,		62
27	Intra-vehicular verification and control: a two-pronged approach. *International Journal of Vehicle Information and Communication Systems*, **2011**, 2, 248	0.3	1
26	Multimedia applications over metropolitan area networks (MANs). *Journal of Network and Computer Applications*, **2011**, 34, 1518-1529	7.9	29
25	A scalable multimedia QoS architecture for ad hoc networks. *Multimedia Tools and Applications*, **2011**, 54, 551-568	2.5	11
24	Computational Markovian analysis of large systems. *Journal of Manufacturing Technology Management*, **2011**, 22, 804-817	7.1	46
23	Towards Standardization of In-Car Sensors. *Lecture Notes in Computer Science*, **2011**, 216-223	0.9	5
22	Intra-vehicular verification and control: A two-pronged approach **2010**,		7
21	A Quantitative Model of Grid Systems Performance in Healthcare Organisations **2010**,		27

20	LocPriS: A Security and Privacy Preserving Location Based Services Development Framework. *Lecture Notes in Computer Science*, **2010**, 566-575	0.9	13
19	Controlling Real World Pervasive Environments with Knowledge Bases. *Lecture Notes in Computer Science*, **2010**, 576-585	0.9	1
18	On Discovering Road Traffic Information Using Virtual Reality Simulations **2009**,		14
17	A Scalable Provisioning and Routing Scheme for Multimedia QoS over Ad Hoc Networks. *Lecture Notes in Computer Science*, **2009**, 131-142	0.9	4
16	End to End Wireless Multimedia Service Modelling over a Metropolitan Area Network **2009**,		8
15	Multi-component multimedia resource optimisation for 3G and beyond. *International Journal of Internet Protocol Technology*, **2009**, 4, 4	0.3	1
14	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
13	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	7
12	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	2
11	A data Mirroring technique for SANs in a Metro WDM sectioned ring **2008**,		9
10	Multimedia Ad Hoc Networks: Performance Analysis **2008**,		7
9	A Mirroring Strategy for SANs in a Metro WDM Sectioned Ring Architecture under Different Traffic Scenarios. *Journal of Optical Communications*, **2008**, 29,	1.2	5
8	Data Mirroring for Metro WDM Storage Area Networks **2007**,		1
7	Performance Evaluation of a Metro WDM Multi-channel Ring Network with Variable-length Packets **2007**,		4
6	**2005**,		9
5	Serial Disk-Based Analysis of Large Stochastic Models. *Lecture Notes in Computer Science*, **2004**, 230-255	0.9	13
4	A Symbolic Out-of-Core Solution Method for Markov Models. *Electronic Notes in Theoretical Computer Science*, **2002**, 68, 589-604	0.7	21
3	Out-of-Core Solution of Large Linear Systems of Equations Arising from Stochastic Modelling. *Lecture Notes in Computer Science*, **2002**, 135-151	0.9	16

List of Publications

2	Dual-processor parallelisation of symbolic probabilistic model checking	9
1	Cross-Layer Multimedia QoS Provisioning over Ad Hoc Networks460-499	4