

Iyad Katib

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.

71
papers

1,318
citations

17
h-index

35
g-index

80
ext. papers

1,759
ext. citations

2.4
avg, IF

5.38
L-index

#	Paper	IF	Citations
71	Intidad: 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,	3.8	2
70	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	3.6	5
69	LidSonic for Visually Impaired: Green Machine Learning-Based Assistive Smart Glasses with Smart App and Arduino. <i>Electronics (Switzerland)</i> , 2022 , 11, 1076	2.6	0
68	iResponse: An AI and IoT-Enabled Framework for Autonomous COVID-19 Pandemic Management. <i>Sustainability</i> , 2021 , 13, 3797	3.6	16
67	Novel congestion avoidance scheme for Internet of Drones. <i>Computer Communications</i> , 2021 , 169, 202-240	3.0	6
66	Iktishaf+: A Big Data Tool with Automatic Labeling for Road Traffic Social Sensing and Event Detection Using Distributed Machine Learning. <i>Sensors</i> , 2021 , 21,	3.8	15
65	DIESEL: A novel deep learning-based tool for SpMV computations and solving sparse linear equation systems. <i>Journal of Supercomputing</i> , 2021 , 77, 6313-6355	2.5	3
64	Software Engineering for IoT-Driven Data Analytics Applications. <i>IEEE Access</i> , 2021 , 9, 48197-48217	3.5	3
63	COVID-19: Detecting Government Pandemic Measures and Public Concerns from Twitter Arabic Data Using Distributed Machine Learning. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	22
62	The Spatial Form of Digital Nonlinear Landscape Architecture Design Based on Computer Big Data. <i>Applied Mathematics and Nonlinear Sciences</i> , 2021 ,	4	2
61	UbiPriSEQDeep Reinforcement Learning to Manage Privacy, Security, Energy, and QoS in 5G IoT HetNets. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7120	2.6	17
60	Performance Analysis of Sparse Matrix-Vector Multiplication (SpMV) on Graphics Processing Units (GPUs). <i>Electronics (Switzerland)</i> , 2020 , 9, 1675	2.6	3
59	Sehaa: A Big Data Analytics Tool for Healthcare Symptoms and Diseases Detection Using Twitter, Apache Spark, and Machine Learning. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1398	2.6	36
58	Masdar: A Novel Sequence-to-Sequence Deep Learning Model for Arabic Stemming. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 363-373	0.4	1
57	A Scalable Solution to Network Design Problems: Decomposition with Exhaustive Routing Search 2020 ,		1
56	A Framework for Preserving Location Privacy for Continuous Queries. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 819-832	0.4	2
55	Recursive algorithm for selecting optimum routing tables to solve offline routing and spectrum assignment problem. <i>Ain Shams Engineering Journal</i> , 2020 , 11, 273-280	4.4	

54	A Fog-Augmented Machine Learning based SMS Spam Detection and Classification System 2020 ,		6
53	Distributed Artificial Intelligence-as-a-Service (DAIaaS) for Smarter IoE and 6G Environments. <i>Sensors</i> , 2020 , 20,	3.8	33
52	Iktishaf: a Big Data Road-Traffic Event Detection Tool Using Twitter and Spark Machine Learning. <i>Mobile Networks and Applications</i> , 2020 , 1	2.9	23
51	Big Data Tools, Technologies, and Applications: A Survey. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 453-490	0.6	7
50	Comparison of Decision Trees and Deep Learning for Object Classification in Autonomous Driving. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 135-158	0.6	8
49	The Role of Big Data and Twitter Data Analytics in Healthcare Supply Chain Management. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 267-279	0.6	10
48	Sentiment Analysis of Arabic Tweets for Road Traffic Congestion and Event Detection. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 37-54	0.6	8
47	Parallel Iterative Solution of Large Sparse Linear Equation Systems on the Intel MIC Architecture. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 377-407	0.6	6
46	Big Data for Smart Infrastructure Design: Opportunities and Challenges. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 491-518	0.6	4
45	Big Data and HPC Convergence for Smart Infrastructures: A Review and Proposed Architecture. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 561-586	0.6	8
44	In-Memory Deep Learning Computations on GPUs for Prediction of Road Traffic Incidents Using Big Data Fusion. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 79-114	0.6	3
43	A Smart Disaster Management System for Future Cities Using Deep Learning, GPUs, and In-Memory Computing. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 159-184	0.6	6
42	Smarter Traffic Prediction Using Big Data, In-Memory Computing, Deep Learning and GPUs. <i>Sensors</i> , 2019 , 19,	3.8	44
41	Rapid Transit Systems: Smarter Urban Planning Using Big Data, In-Memory Computing, Deep Learning, and GPUs. <i>Sustainability</i> , 2019 , 11, 2736	3.6	25
40	SURAA: A Novel Method and Tool for Loadbalanced and Coalesced SpMV Computations on GPUs. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 947	2.6	13
39	TAAWUN: a Decision Fusion and Feature Specific Road Detection Approach for Connected Autonomous Vehicles. <i>Mobile Networks and Applications</i> , 2019 , 1	2.9	17
38	ZAKI: A Smart Method and Tool for Automatic Performance Optimization of Parallel SpMV Computations on Distributed Memory Machines. <i>Mobile Networks and Applications</i> , 2019 , 1	2.9	9
37	Sentiment Analysis of Arabic Tweets in Smart Cities: A Review of Saudi Dialect 2019 ,		4

36	ZAKI+: A Machine Learning Based Process Mapping Tool for SpMV Computations on Distributed Memory Architectures. <i>IEEE Access</i> , 2019 , 7, 81279-81296	3.5	9
35	Fast Implementation of Face Detection Using LPB Classifier on GPGPUs. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 1036-1047	0.4	
34	Road Traffic Event Detection Using Twitter Data, Machine Learning, and Apache Spark 2019 ,		8
33	On time dependent routing algorithms for open marketplaces of path services with support for in-advance path reservation. <i>Computer Networks</i> , 2018 , 138, 201-212	5.4	1
32	Ontology Design for Solving Computationally-Intensive Problems on Heterogeneous Architectures. <i>Sustainability</i> , 2018 , 10, 441	3.6	5
31	D2TFRS: An Object Recognition Method for Autonomous Vehicles Based on RGB and Spatial Values of Pixels. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2018 , 155-168	0.2	10
30	. <i>IEEE Access</i> , 2018 , 6, 32258-32285	3.5	132
29	Location Privacy in Smart Cities Era. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2018 , 123-138	0.2	9
28	Performance Evaluation of Jacobi Iterative Solution for Sparse Linear Equation System on Multicore and Manycore Architectures. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2018 , 296-305	0.2	1
27	Parallel Sparse Matrix Vector Multiplication on Intel MIC: Performance Analysis. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2018 , 306-322	0.2	3
26	Big Data and HPC Convergence: The Cutting Edge and Outlook. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2018 , 11-26	0.2	13
25	A Framework for Faster Porting of Scientific Applications Between Heterogeneous Clouds. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2018 , 27-43	0.2	1
24	UTiLearn: A Personalised Ubiquitous Teaching and Learning System for Smart Societies. <i>IEEE Access</i> , 2017 , 5, 2615-2635	3.5	89
23	Data Fusion and IoT for Smart Ubiquitous Environments: A Survey. <i>IEEE Access</i> , 2017 , 5, 9533-9554	3.5	214
22	Enabling Smarter Societies through Mobile Big Data Fogs and Clouds. <i>Procedia Computer Science</i> , 2017 , 109, 1128-1133	1.6	42
21	Saudi-KAU Coupled Global Climate Model: Description and Performance. <i>Earth Systems and Environment</i> , 2017 , 1, 1	7.5	30
20	Enabling Next Generation Logistics and Planning for Smarter Societies. <i>Procedia Computer Science</i> , 2017 , 109, 1122-1127	1.6	57
19	Analysis of round-robin load-balancing algorithm with adaptive and predictive approaches 2016 ,		9

18	Distance-adaptive routing and spectrum assignment in rings. <i>IET Networks</i> , 2016 , 5, 64-70	2.8	1
17	Analysis of Eight Data Mining Algorithms for Smarter Internet of Things (IoT). <i>Procedia Computer Science</i> , 2016 , 98, 437-442	1.6	109
16	Performance improvement of the parallel smith waterman algorithm implementation using Hybrid MPI-OpenMP model 2016 ,		1
15	Ontological Design to Support Cognitive Plasticity for Creative Immersive Experience in Computer Aided Learning. <i>Lecture Notes in Computer Science</i> , 2015 , 261-270	0.9	
14	Spectrum assignment in rings with shortest-path routing: Complexity and approximation algorithms 2015 ,		3
13	On Routing and Spectrum Assignment in Rings. <i>Journal of Lightwave Technology</i> , 2015 , 33, 151-160	4	6
12	Comparison of Network Protection in Three-Layer IP/MPLS-over-OTN-over-DWDM Networks 2015 ,		3
11	Offline Distance-Adaptive Routing and Spectrum Assignment (DA-RSA) in Rings 2015 ,		1
10	Spectrum Assignment in Mesh Elastic Optical Networks 2015 ,		2
9	Spectrum Assignment in Optical Networks: A Multiprocessor Scheduling Perspective. <i>Journal of Optical Communications and Networking</i> , 2014 , 6, 754	4.1	26
8	Spectrum management techniques for elastic optical networks: A survey. <i>Optical Switching and Networking</i> , 2014 , 13, 34-48	1.6	122
7	Network protection design models, a heuristic, and a study for concurrent single-link per layer failures in three-layer networks. <i>Computer Communications</i> , 2013 , 36, 678-688	5.1	2
6	IP/MPLS-over-OTN-over-DWDM Multilayer Networks: An Integrated Three-Layer Capacity Optimization Model, a Heuristic, and a Study. <i>IEEE Transactions on Network and Service Management</i> , 2012 , 9, 240-253	4.8	15
5	Optimizing Node Capacity in Multilayer Networks. <i>IEEE Communications Letters</i> , 2011 , 15, 581-583	3.8	6
4	2011 ,		3
3	Performance of distributed reservation control in wavelength-routed all-optical WDM networks with Adaptive Alternate Routing 2009 ,		1
2	Adaptive alternate routing in WDM networks and its performance tradeoffs in the presence of wavelength converters. <i>Optical Switching and Networking</i> , 2009 , 6, 181-193	1.6	10
1	A Network Optimization Model for Multi-layer IP/MPLS over OTN/DWDM Networks. <i>Lecture Notes in Computer Science</i> , 2009 , 180-185	0.9	1

