

# Iyad Katib

## List of Publications by Citations

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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	Data Fusion and IoT for Smart Ubiquitous Environments: A Survey. <i>IEEE Access</i> , <b>2017</b> , 5, 9533-9554	3.5	214
70	. <i>IEEE Access</i> , <b>2018</b> , 6, 32258-32285	3.5	132
69	Spectrum management techniques for elastic optical networks: A survey. <i>Optical Switching and Networking</i> , <b>2014</b> , 13, 34-48	1.6	122
68	Analysis of Eight Data Mining Algorithms for Smarter Internet of Things (IoT). <i>Procedia Computer Science</i> , <b>2016</b> , 98, 437-442	1.6	109
67	UTiLearn: A Personalised Ubiquitous Teaching and Learning System for Smart Societies. <i>IEEE Access</i> , <b>2017</b> , 5, 2615-2635	3.5	89
66	Enabling Next Generation Logistics and Planning for Smarter Societies. <i>Procedia Computer Science</i> , <b>2017</b> , 109, 1122-1127	1.6	57
65	Smarter Traffic Prediction Using Big Data, In-Memory Computing, Deep Learning and GPUs. <i>Sensors</i> , <b>2019</b> , 19,	3.8	44
64	Enabling Smarter Societies through Mobile Big Data Fogs and Clouds. <i>Procedia Computer Science</i> , <b>2017</b> , 109, 1128-1133	1.6	42
63	Sehaa: A Big Data Analytics Tool for Healthcare Symptoms and Diseases Detection Using Twitter, Apache Spark, and Machine Learning. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1398	2.6	36
62	Distributed Artificial Intelligence-as-a-Service (DAIaaS) for Smarter IoE and 6G Environments. <i>Sensors</i> , <b>2020</b> , 20,	3.8	33
61	Saudi-KAU Coupled Global Climate Model: Description and Performance. <i>Earth Systems and Environment</i> , <b>2017</b> , 1, 1	7.5	30
60	Spectrum Assignment in Optical Networks: A Multiprocessor Scheduling Perspective. <i>Journal of Optical Communications and Networking</i> , <b>2014</b> , 6, 754	4.1	26
59	Rapid Transit Systems: Smarter Urban Planning Using Big Data, In-Memory Computing, Deep Learning, and GPUs. <i>Sustainability</i> , <b>2019</b> , 11, 2736	3.6	25
58	Iktishaf: a Big Data Road-Traffic Event Detection Tool Using Twitter and Spark Machine Learning. <i>Mobile Networks and Applications</i> , <b>2020</b> , 1	2.9	23
57	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> , <b>2021</b> , 18,	4.6	22
56	UbiPriSEQ: Deep Reinforcement Learning to Manage Privacy, Security, Energy, and QoS in 5G IoT HetNets. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7120	2.6	17
55	TAAWUN: a Decision Fusion and Feature Specific Road Detection Approach for Connected Autonomous Vehicles. <i>Mobile Networks and Applications</i> , <b>2019</b> , 1	2.9	17

54	iResponse: An AI and IoT-Enabled Framework for Autonomous COVID-19 Pandemic Management. <i>Sustainability</i> , <b>2021</b> , 13, 3797	3.6	16
53	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> , <b>2012</b> , 9, 240-253	4.8	15
52	Iktishaf+: A Big Data Tool with Automatic Labeling for Road Traffic Social Sensing and Event Detection Using Distributed Machine Learning. <i>Sensors</i> , <b>2021</b> , 21,	3.8	15
51	SURAA: A Novel Method and Tool for Loadbalanced and Coalesced SpMV Computations on GPUs. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 947	2.6	13
50	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> , <b>2018</b> , 11-26	0.2	13
49	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> , <b>2018</b> , 155-168	0.2	10
48	Adaptive alternate routing in WDM networks and its performance tradeoffs in the presence of wavelength converters. <i>Optical Switching and Networking</i> , <b>2009</b> , 6, 181-193	1.6	10
47	The Role of Big Data and Twitter Data Analytics in Healthcare Supply Chain Management. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2020</b> , 267-279	0.6	10
46	Analysis of round-robin load-balancing algorithm with adaptive and predictive approaches <b>2016</b> ,		9
45	ZAKI: A Smart Method and Tool for Automatic Performance Optimization of Parallel SpMV Computations on Distributed Memory Machines. <i>Mobile Networks and Applications</i> , <b>2019</b> , 1	2.9	9
44	ZAKI+: A Machine Learning Based Process Mapping Tool for SpMV Computations on Distributed Memory Architectures. <i>IEEE Access</i> , <b>2019</b> , 7, 81279-81296	3.5	9
43	Location Privacy in Smart Cities Era. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2018</b> , 123-138	0.2	9
42	Road Traffic Event Detection Using Twitter Data, Machine Learning, and Apache Spark <b>2019</b> ,		8
41	Comparison of Decision Trees and Deep Learning for Object Classification in Autonomous Driving. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2020</b> , 135-158	0.6	8
40	Sentiment Analysis of Arabic Tweets for Road Traffic Congestion and Event Detection. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2020</b> , 37-54	0.6	8
39	Big Data and HPC Convergence for Smart Infrastructures: A Review and Proposed Architecture. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2020</b> , 561-586	0.6	8
38	Big Data Tools, Technologies, and Applications: A Survey. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2020</b> , 453-490	0.6	7
37	On Routing and Spectrum Assignment in Rings. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 151-160	4	6

36	Optimizing Node Capacity in Multilayer Networks. <i>IEEE Communications Letters</i> , <b>2011</b> , 15, 581-583	3.8	6
35	A Fog-Augmented Machine Learning based SMS Spam Detection and Classification System <b>2020</b> ,		6
34	Novel congestion avoidance scheme for Internet of Drones. <i>Computer Communications</i> , <b>2021</b> , 169, 202-210		6
33	Parallel Iterative Solution of Large Sparse Linear Equation Systems on the Intel MIC Architecture. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2020</b> , 377-407	0.6	6
32	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> , <b>2020</b> , 159-184	0.6	6
31	Ontology Design for Solving Computationally-Intensive Problems on Heterogeneous Architectures. <i>Sustainability</i> , <b>2018</b> , 10, 441	3.6	5
30	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> , <b>2022</b> , 14, 3313	3.6	5
29	Sentiment Analysis of Arabic Tweets in Smart Cities: A Review of Saudi Dialect <b>2019</b> ,		4
28	Big Data for Smart Infrastructure Design: Opportunities and Challenges. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2020</b> , 491-518	0.6	4
27	Spectrum assignment in rings with shortest-path routing: Complexity and approximation algorithms <b>2015</b> ,		3
26	Performance Analysis of Sparse Matrix-Vector Multiplication (SpMV) on Graphics Processing Units (GPUs). <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1675	2.6	3
25	Comparison of Network Protection in Three-Layer IP/MPLS-over-OTN-over-DWDM Networks <b>2015</b> ,		3
24	<b>2011</b> ,		3
23	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> , <b>2018</b> , 306-322 <sup>0.2</sup>		3
22	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> , <b>2020</b> , 79-114	0.6	3
21	DIESEL: A novel deep learning-based tool for SpMV computations and solving sparse linear equation systems. <i>Journal of Supercomputing</i> , <b>2021</b> , 77, 6313-6355	2.5	3
20	Software Engineering for IoT-Driven Data Analytics Applications. <i>IEEE Access</i> , <b>2021</b> , 9, 48197-48217	3.5	3
19	Spectrum Assignment in Mesh Elastic Optical Networks <b>2015</b> ,		2

18	Network protection design models, a heuristic, and a study for concurrent single-link per layer failures in three-layer networks. <i>Computer Communications</i> , <b>2013</b> , 36, 678-688	5.1	2
17	A Framework for Preserving Location Privacy for Continuous Queries. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 819-832	0.4	2
16	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> , <b>2022</b> , 22,	3.8	2
15	The Spatial Form of Digital Nonlinear Landscape Architecture Design Based on Computer Big Data. <i>Applied Mathematics and Nonlinear Sciences</i> , <b>2021</b> ,	4	2
14	On time dependent routing algorithms for open marketplaces of path services with support for in-advance path reservation. <i>Computer Networks</i> , <b>2018</b> , 138, 201-212	5.4	1
13	Offline Distance-Adaptive Routing and Spectrum Assignment (DA-RSA) in Rings <b>2015</b> ,		1
12	Performance of distributed reservation control in wavelength-routed all-optical WDM networks with Adaptive Alternate Routing <b>2009</b> ,		1
11	Masdar: A Novel Sequence-to-Sequence Deep Learning Model for Arabic Stemming. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 363-373	0.4	1
10	A Scalable Solution to Network Design Problems: Decomposition with Exhaustive Routing Search <b>2020</b> ,		1
9	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> , <b>2018</b> , 296-305	0.2	1
8	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> , <b>2018</b> , 27-43	0.2	1
7	Distance-adaptive routing and spectrum assignment in rings. <i>IET Networks</i> , <b>2016</b> , 5, 64-70	2.8	1
6	A Network Optimization Model for Multi-layer IP/MPLS over OTN/DWDM Networks. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 180-185	0.9	1
5	Performance improvement of the parallel smith waterman algorithm implementation using Hybrid MPI-OpenMP model <b>2016</b> ,		1
4	LidSonic for Visually Impaired: Green Machine Learning-Based Assistive Smart Glasses with Smart App and Arduino. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 1076	2.6	0
3	Ontological Design to Support Cognitive Plasticity for Creative Immersive Experience in Computer Aided Learning. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 261-270	0.9	
2	Fast Implementation of Face Detection Using LPB Classifier on GPGPUs. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 1036-1047	0.4	
1	Recursive algorithm for selecting optimum routing tables to solve offline routing and spectrum assignment problem. <i>Ain Shams Engineering Journal</i> , <b>2020</b> , 11, 273-280	4.4	

