Kamalrulnizam Abu Bakar

List of Publications by Year in Descending Order

82 papers	**1,545** citations
22 h-index	**37** g-index
93 ext. papers	**1,872** ext. citations
2.5 avg, IF	**5.24** L-index

#	Paper	IF	Citations
82	Recent Advancement of Data-Driven Models in Wireless Sensor Networks: A Survey. *Technologies*, **2021**, 9, 76	2.4	1
81	Cluster-based location service schemes in VANETs: current state, challenges and future directions. *Telecommunication Systems*, **2021**, 76, 471-489	2.3	3
80	Route Path Selection Optimization Scheme Based Link Quality Estimation and Critical Switch Awareness for Software Defined Networks. *Applied Sciences (Switzerland)*, **2021**, 11, 9100	2.6	2
79	TRADING: Traffic Aware Data Offloading for Big Data Enabled Intelligent Transportation System. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 6869-6879	6.8	10
78	Software Defined Networking Flow Table Management of OpenFlow Switches Performance and Security Challenges: A Survey. *Future Internet*, **2020**, 12, 147	3.3	18
77	Adaptive and Hybrid Idle⊞Hard Timeout Allocation and Flow Eviction Mechanism Considering Traffic Characteristics. *Electronics (Switzerland)*, **2020**, 9, 1983	2.6	4
76	Preparing opportunistic networks for smart cities: Collecting sensed data with minimal knowledge. *Journal of Parallel and Distributed Computing*, **2020**, 135, 21-55	4.4	5
75	Exploiting Layered Multi-Path Routing Protocols to Avoid Void Hole Regions for Reliable Data Delivery and Efficient Energy Management for IoT-Enabled Underwater WSNs. *Sensors*, **2019**, 19,	3.8	8
74	Energy-Efficient Mobile-Sink Sojourn Location Optimization Scheme for Consumer Home Networks. *IEEE Access*, **2019**, 7, 112079-112086	3.5	6
73	Energy-Efficient Intra-Cluster Routing Algorithm to Enhance the Coverage Time of Wireless Sensor Networks. *IEEE Sensors Journal*, **2019**, 19, 4501-4508	4	13
72	Inter- and intra-cluster movement of mobile sink algorithms for cluster-based networks to enhance the network lifetime. *Ad Hoc Networks*, **2019**, 85, 60-70	4.8	37
71	Reliable Intersection-Based Traffic Aware Routing Protocol for Urban Areas Vehicular Ad Hoc Networks. *IEEE Intelligent Transportation Systems Magazine*, **2018**, 10, 60-73	2.6	39
70	Fog Based Intelligent Transportation Big Data Analytics in The Internet of Vehicles Environment: Motivations, Architecture, Challenges, and Critical Issues. *IEEE Access*, **2018**, 6, 15679-15701	3.5	118
69	An overview of routing techniques for road and pipeline monitoring in linear sensor networks. *Wireless Networks*, **2018**, 24, 2133-2143	2.5	6
68	Optimal control overhead based multi-metric routing for MANET. *Wireless Networks*, **2018**, 24, 2319-2335	2.5	3
67	Stealth Jamming Attack in WSNs: Effects and Countermeasure. *IEEE Sensors Journal*, **2018**, 18, 7106-7113	4	8
66	Collaborative Mobile Sink Sojourn Time Optimization Scheme for Cluster-Based Wireless Sensor Networks. *IEEE Sensors Journal*, **2018**, 18, 6669-6676	4	25

65	Optimized Reliable Hybrid Routing Protocol Based Link Stability for Mobile Wireless Networks. *Wireless Personal Communications*, **2018**, 102, 473-493	1.9	0
64	Energy-aware and secure routing with trust for disaster response wireless sensor network. *Peer-to-Peer Networking and Applications*, **2017**, 10, 216-237	3.1	30
63	Adaptive energy aware cluster-based routing protocol for wireless sensor networks. *Wireless Networks*, **2017**, 23, 1953-1966	2.5	35
62	Optimization with traffic-based control for designing standalone streetlight system: A case study. *Renewable Energy*, **2017**, 105, 149-159	8.1	24
61	Routing protocols in wireless body sensor networks: A comprehensive survey. *Journal of Network and Computer Applications*, **2017**, 99, 73-97	7.9	47
60	WECRR: Weighted Energy-Efficient Clustering with Robust Routing for Wireless Sensor Networks. *Wireless Personal Communications*, **2017**, 97, 695-721	1.9	13
59	Green geographical routing in vehicular ad hoc networks: Advances and challenges. *Computers and Electrical Engineering*, **2017**, 64, 436-449	4.3	6
58	Collecting Sensed Data with Opportunistic Networks: The Case of Contact Information Overhead. *Information (Switzerland)*, **2017**, 8, 108	2.6	3
57	The Impact of Message Replication on the Performance of Opportunistic Networks for Sensed Data Collection. *Information (Switzerland)*, **2017**, 8, 143	2.6	4
56	Addressing the Issue of Routing Unfairness in Opportunistic Backhaul Networks for Collecting Sensed Data. *Journal of Sensor and Actuator Networks*, **2017**, 6, 31	3.8	1
55	An Energy-Efficient Mobile Sink-Based Unequal Clustering Mechanism for WSNs. *Sensors*, **2017**, 17,	3.8	18
54	A trust aware routing protocol for energy constrained wireless sensor network. *Telecommunication Systems*, **2016**, 61, 123-140	2.3	32
53	Traffic aware routing in vehicular ad hoc networks: characteristics and challenges. *Telecommunication Systems*, **2016**, 61, 489-513	2.3	34
52	A dynamic Energy-aware fault tolerant routing protocol for wireless sensor networks. *Computers and Electrical Engineering*, **2016**, 56, 557-575	4.3	9
51	A Secure Routing Protocol with Trust and Energy Awareness for Wireless Sensor Network. *Mobile Networks and Applications*, **2016**, 21, 272-285	2.9	36
50	Scalable Nodes Deployment Algorithm for the Monitoring of Underwater Pipeline. *Telkomnika (Telecommunication Computing Electronics and Control)*, **2016**, 14, 1183	1.4	4
49	Towards next-generation routing protocols for pocket switched networks. *Journal of Network and Computer Applications*, **2016**, 70, 51-88	7.9	14
48	Lightweight intersection-based traffic aware routing in Urban vehicular networks. *Computer Communications*, **2016**, 87, 60-75	5.1	24

47	Implementing Congestion Avoidance Mechanism in Cluster Based Routing Protocol for Wireless Mesh Client Networks. *Wireless Personal Communications*, **2015**, 81, 725-743	1.9	2
46	TERP: A Trust and Energy Aware Routing Protocol for Wireless Sensor Network. *IEEE Sensors Journal*, **2015**, 15, 6962-6972	4	52
45	Modeling low-power wireless communications. *Journal of Network and Computer Applications*, **2015**, 51, 102-126	7.9	34
44	Traffic density estimation in vehicular ad hoc networks: A review. *Ad Hoc Networks*, **2015**, 24, 337-351	4.8	81
43	LINKORD: link ordering-based data gathering protocol for wireless sensor networks. *Computing (Vienna/New York)*, **2015**, 97, 205-236	2.2	4
42	A survey on trust based detection and isolation of malicious nodes in ad-hoc and sensor networks. *Frontiers of Computer Science*, **2015**, 9, 280-296	2.2	47
41	Grid Based Cluster Head Selection Mechanism for Wireless sensor network. *Telkomnika (Telecommunication Computing Electronics and Control)*, **2015**, 13, 269	1.4	5
40	Vehicular Cloud Computing **2015**, 1049-1061		1
39	IM2PR: interference-minimized multipath routing protocol for wireless sensor networks. *Wireless Networks*, **2014**, 20, 1807-1823	2.5	17
38	An Enhanced Connectivity Aware Routing Protocol for Vehicular Ad hoc Networks. *Research Journal of Applied Sciences, Engineering and Technology*, **2014**, 7, 2935-2945	0.2	2
37	Integration and analysis of neighbor discovery and link quality estimation in wireless sensor networks. *Scientific World Journal, The*, **2014**, 2014, 789642	2.2	6
36	Network Initialization in Low-Power Wireless Networks: A Comprehensive Study. *Computer Journal*, **2014**, 57, 1238-1261	1.3	13
35	A smart handover prediction system based on curve fitting model for Fast Mobile IPv6 in wireless networks. *International Journal of Communication Systems*, **2014**, 27, 969-990	1.7	14
34	Improving broadcast reliability for neighbor discovery, link estimation and collection tree construction in wireless sensor networks. *Computer Networks*, **2014**, 62, 101-121	5.4	15
33	Vehicular Cloud Computing. *Advances in Wireless Technologies and Telecommunication Book Series*, **2014**, 262-274	0.2	3
32	Optimization of standalone street light system with consideration of lighting control **2013**,		11
31	Intelligent beaconless geographical forwarding for urban vehicular environments. *Wireless Networks*, **2013**, 19, 345-362	2.5	44
30	Fuzzy-Based Dynamic Distributed Queue Scheduling for Packet Switched Networks. *Journal of Computer Science and Technology*, **2013**, 28, 357-365	1.7	4

#	Title		
29	An Intelligent Vertical Handover Scheme for Audio and Video Streaming in Heterogeneous Vehicular Networks. *Mobile Networks and Applications*, **2013**, 18, 879-895	2.9	22
28	Novel dual demand side management (2DSM) scheme in optimizing utilization of available power **2013**,		4
27	Formal Verification of Congestion Control Algorithm in VANETs. *International Journal of Computer Network and Information Security*, **2013**, 5, 1-7	1.6	2
26	Beaconing Approaches in Vehicular Ad Hoc Networks: A Survey. *Wireless Personal Communications*, **2013**, 73, 885-912	1.9	64
25	A fuzzy logic approach to beaconing for vehicular ad hoc networks. *Telecommunication Systems*, **2013**, 52, 139-149	2.3	51
24	A queue scheduling approach to quality of service support in Diff-Serv networks using fuzzy logic **2012**,		1
23	Modeling of Fuzzy Logic Control System for Controlling Homogeneity of Light Intensity from Light Emitting Diode **2012**,		3
22	Multipath routing in wireless sensor networks: survey and research challenges. *Sensors*, **2012**, 12, 650-85	3.8	204
21	A Survey of Energy-aware Routing protocols in Mobile Ad-hoc Networks: Trends and Challenges. *Network Protocols and Algorithms*, **2012**, 4,	0.3	13
20	Handover Latency Measurement of Mobile IPv6 in a Testbed Environment. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2012**, 285-299	0.2	
19	Development of a Routing Framework for a Cluster-Based Congestion Avoidance and Load Balancing Algorithm for IEEE802.11s Mesh Network. *Research Journal of Applied Sciences*, **2012**, 7, 71-83[1]	1	1
18	Fuzzy Redundancy Adaptation and Joint Source - Network Coding for VANET Video Streaming. *Lecture Notes in Computer Science*, **2011**, 458-469	0.9	3
17	Aligned-PSNR (APSNR) for Objective Video Quality Measurement (VQM) in video stream over wireless and mobile network **2011**,		5
16	Handover Latency Measurement using Variant of Capwap Protocol. *Network Protocols and Algorithms*, **2011**, 3,	0.3	1
15	A FUZZY LOGIC APPROACH FOR REDUCING HANDOVER LATENCY IN WIRELESS NETWORKS. *Network Protocols and Algorithms*, **2011**, 2,	0.3	3
14	Interference-aware multipath routing protocol for QoS improvement in event-driven wireless sensor networks. *Tsinghua Science and Technology*, **2011**, 16, 475-490	3.4	42
13	Nonlinearity Modelling of QoE for Video Streaming over Wireless and Mobile Network **2011**,		4
12	Scheduling of OSPF routing table calculation using Generalized Regression Neural Network **2011**,		6

11	Comparison of intelligent schemes for scheduling OSPF routing table calculation **2011**,		1
10	Inter-domain Proxy Mobile IPv6 based Vehicular Network. *Network Protocols and Algorithms*, **2011**, 2,	0.3	7
9	Grid Jobs Scheduling Improvement Using Priority Rules and Backfilling. *Communications in Computer and Information Science*, **2011**, 401-415	0.3	0
8	Reducing Handover Latency in Mobile IPv6-Based WLAN by Parallel Signal Execution at Layer 2 and Layer 3. *Communications in Computer and Information Science*, **2011**, 201-211	0.3	
7	A Novel Delay- and Reliability- Aware Inter-Vehicle Routing Protocol. *Network Protocols and Algorithms*, **2010**, 2,	0.3	8
6	LIEMRO: A Low-Interference Energy-Efficient Multipath Routing Protocol for Improving QoS in Event-Based Wireless Sensor Networks **2010**,		18
5	Survey on Artificial Immune System as a Bio-inspired Technique for Anomaly Based Intrusion Detection Systems **2010**,		13
4	Distributed Intrusion Detection in Clouds Using Mobile Agents **2009**,		64
3	Novel Framework of Integrated Security and Safety System Using Hybrid Network Technology **2009** ,		1
2	A Novel Method for Unsupervised Anomaly Detection Using Unlabelled Data **2008**,		5
1	Visualization Pipeline for Medical Datasets on Grid Computing Environment **2007**,		2