# Kamalrulnizam Abu Bakar

## List of Publications by Citations



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|---|---|---|---|
| 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 | Multipath routing in wireless sensor networks: survey and research challenges. *Sensors*, **2012**, 12, 650-85 | 3.8 | 204 |
| 81 | 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 |
| 80 | Traffic density estimation in vehicular ad hoc networks: A review. *Ad Hoc Networks*, **2015**, 24, 337-351 | 4.8 | 81 |
| 79 | Beaconing Approaches in Vehicular Ad Hoc Networks: A Survey. *Wireless Personal Communications*, **2013**, 73, 885-912 | 1.9 | 64 |
| 78 | Distributed Intrusion Detection in Clouds Using Mobile Agents **2009**, | | 64 |
| 77 | TERP: A Trust and Energy Aware Routing Protocol for Wireless Sensor Network. *IEEE Sensors Journal*, **2015**, 15, 6962-6972 | 4 | 52 |
| 76 | A fuzzy logic approach to beaconing for vehicular ad hoc networks. *Telecommunication Systems*, **2013**, 52, 139-149 | 2.3 | 51 |
| 75 | Routing protocols in wireless body sensor networks: A comprehensive survey. *Journal of Network and Computer Applications*, **2017**, 99, 73-97 | 7.9 | 47 |
| 74 | 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 |
| 73 | Intelligent beaconless geographical forwarding for urban vehicular environments. *Wireless Networks*, **2013**, 19, 345-362 | 2.5 | 44 |
| 72 | 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 |
| 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 | 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 |
| 69 | A Secure Routing Protocol with Trust and Energy Awareness for Wireless Sensor Network. *Mobile Networks and Applications*, **2016**, 21, 272-285 | 2.9 | 36 |
| 68 | Adaptive energy aware cluster-based routing protocol for wireless sensor networks. *Wireless Networks*, **2017**, 23, 1953-1966 | 2.5 | 35 |
| 67 | Traffic aware routing in vehicular ad hoc networks: characteristics and challenges. *Telecommunication Systems*, **2016**, 61, 489-513 | 2.3 | 34 |
| 66 | Modeling low-power wireless communications. *Journal of Network and Computer Applications*, **2015** , 51, 102-126 | 7.9 | 34 |

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| 65 | A trust aware routing protocol for energy constrained wireless sensor network. *Telecommunication Systems*, **2016**, 61, 123-140 | 2.3 | 32 |
| 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 | Collaborative Mobile Sink Sojourn Time Optimization Scheme for Cluster-Based Wireless Sensor Networks. *IEEE Sensors Journal*, **2018**, 18, 6669-6676 | 4 | 25 |
| 62 | Optimization with traffic-based control for designing standalone streetlight system: A case study. *Renewable Energy*, **2017**, 105, 149-159 | 8.1 | 24 |
| 61 | Lightweight intersection-based traffic aware routing in Urban vehicular networks. *Computer Communications*, **2016**, 87, 60-75 | 5.1 | 24 |
| 60 | 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 |
| 59 | An Energy-Efficient Mobile Sink-Based Unequal Clustering Mechanism for WSNs. *Sensors*, **2017**, 17, | 3.8 | 18 |
| 58 | LIEMRO: A Low-Interference Energy-Efficient Multipath Routing Protocol for Improving QoS in Event-Based Wireless Sensor Networks **2010**, | | 18 |
| 57 | Software Defined Networking Flow Table Management of OpenFlow Switches Performance and Security Challenges: A Survey. *Future Internet*, **2020**, 12, 147 | 3.3 | 18 |
| 56 | IM2PR: interference-minimized multipath routing protocol for wireless sensor networks. *Wireless Networks*, **2014**, 20, 1807-1823 | 2.5 | 17 |
| 55 | 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 |
| 54 | 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 |
| 53 | Towards next-generation routing protocols for pocket switched networks. *Journal of Network and Computer Applications*, **2016**, 70, 51-88 | 7.9 | 14 |
| 52 | WECRR: Weighted Energy-Efficient Clustering with Robust Routing for Wireless Sensor Networks. *Wireless Personal Communications*, **2017**, 97, 695-721 | 1.9 | 13 |
| 51 | Network Initialization in Low-Power Wireless Networks: A Comprehensive Study. *Computer Journal*, **2014**, 57, 1238-1261 | 1.3 | 13 |
| 50 | A Survey of Energy-aware Routing protocols in Mobile Ad-hoc Networks: Trends and Challenges. *Network Protocols and Algorithms*, **2012**, 4, | 0.3 | 13 |
| 49 | Survey on Artificial Immune System as a Bio-inspired Technique for Anomaly Based Intrusion Detection Systems **2010**, | | 13 |
| 48 | Energy-Efficient Intra-Cluster Routing Algorithm to Enhance the Coverage Time of Wireless Sensor Networks. *IEEE Sensors Journal*, **2019**, 19, 4501-4508 | 4 | 13 |

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| 47 | Optimization of standalone street light system with consideration of lighting control **2013**, | | 11 |
| 46 | TRADING: Traffic Aware Data Offloading for Big Data Enabled Intelligent Transportation System. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 6869-6879 | 6.8 | 10 |
| 45 | A dynamic Energy-aware fault tolerant routing protocol for wireless sensor networks. *Computers and Electrical Engineering*, **2016**, 56, 557-575 | 4.3 | 9 |
| 44 | 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 |
| 43 | Stealth Jamming Attack in WSNs: Effects and Countermeasure. *IEEE Sensors Journal*, **2018**, 18, 7106-7113 | 4 | 8 |
| 42 | A Novel Delay- and Reliability- Aware Inter-Vehicle Routing Protocol. *Network Protocols and Algorithms*, **2010**, 2, | 0.3 | 8 |
| 41 | Inter-domain Proxy Mobile IPv6 based Vehicular Network. *Network Protocols and Algorithms*, **2011**, 2, | 0.3 | 7 |
| 40 | An overview of routing techniques for road and pipeline monitoring in linear sensor networks. *Wireless Networks*, **2018**, 24, 2133-2143 | 2.5 | 6 |
| 39 | Energy-Efficient Mobile-Sink Sojourn Location Optimization Scheme for Consumer Home Networks. *IEEE Access*, **2019**, 7, 112079-112086 | 3.5 | 6 |
| 38 | Green geographical routing in vehicular ad hoc networks: Advances and challenges. *Computers and Electrical Engineering*, **2017**, 64, 436-449 | 4.3 | 6 |
| 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 | Scheduling of OSPF routing table calculation using Generalized Regression Neural Network **2011**, | | 6 |
| 35 | Aligned-PSNR (APSNR) for Objective Video Quality Measurement (VQM) in video stream over wireless and mobile network **2011**, | | 5 |
| 34 | A Novel Method for Unsupervised Anomaly Detection Using Unlabelled Data **2008**, | | 5 |
| 33 | Grid Based Cluster Head Selection Mechanism for Wireless sensor network. *Telkomnika (Telecommunication Computing Electronics and Control)*, **2015**, 13, 269 | 1.4 | 5 |
| 32 | 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 |
| 31 | Fuzzy-Based Dynamic Distributed Queue Scheduling for Packet Switched Networks. *Journal of Computer Science and Technology*, **2013**, 28, 357-365 | 1.7 | 4 |
| 30 | Novel dual demand side management (2DSM) scheme in optimizing utilization of available power **2013**, | | 4 |

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| 29 | The Impact of Message Replication on the Performance of Opportunistic Networks for Sensed Data Collection. *Information (Switzerland)*, **2017**, 8, 143 | 2.6 | 4 |
| 28 | LINKORD: link ordering-based data gathering protocol for wireless sensor networks. *Computing (Vienna/New York)*, **2015**, 97, 205-236 | 2.2 | 4 |
| 27 | Nonlinearity Modelling of QoE for Video Streaming over Wireless and Mobile Network **2011**, | | 4 |
| 26 | Scalable Nodes Deployment Algorithm for the Monitoring of Underwater Pipeline. *Telkomnika (Telecommunication Computing Electronics and Control)*, **2016**, 14, 1183 | 1.4 | 4 |
| 25 | Adaptive and Hybrid Idle-Hard Timeout Allocation and Flow Eviction Mechanism Considering Traffic Characteristics. *Electronics (Switzerland)*, **2020**, 9, 1983 | 2.6 | 4 |
| 24 | Optimal control overhead based multi-metric routing for MANET. *Wireless Networks*, **2018**, 24, 2319-2335 | 2.5 | 3 |
| 23 | Collecting Sensed Data with Opportunistic Networks: The Case of Contact Information Overhead. *Information (Switzerland)*, **2017**, 8, 108 | 2.6 | 3 |
| 22 | Modeling of Fuzzy Logic Control System for Controlling Homogeneity of Light Intensity from Light Emitting Diode **2012**, | | 3 |
| 21 | Fuzzy Redundancy Adaptation and Joint Source - Network Coding for VANET Video Streaming. *Lecture Notes in Computer Science*, **2011**, 458-469 | 0.9 | 3 |
| 20 | A FUZZY LOGIC APPROACH FOR REDUCING HANDOVER LATENCY IN WIRELESS NETWORKS. *Network Protocols and Algorithms*, **2011**, 2, | 0.3 | 3 |
| 19 | Vehicular Cloud Computing. *Advances in Wireless Technologies and Telecommunication Book Series*, **2014**, 262-274 | 0.2 | 3 |
| 18 | Cluster-based location service schemes in VANETs: current state, challenges and future directions. *Telecommunication Systems*, **2021**, 76, 471-489 | 2.3 | 3 |
| 17 | Implementing Congestion Avoidance Mechanism in Cluster Based Routing Protocol for Wireless Mesh Client Networks. *Wireless Personal Communications*, **2015**, 81, 725-743 | 1.9 | 2 |
| 16 | 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 |
| 15 | Formal Verification of Congestion Control Algorithm in VANETs. *International Journal of Computer Network and Information Security*, **2013**, 5, 1-7 | 1.6 | 2 |
| 14 | Visualization Pipeline for Medical Datasets on Grid Computing Environment **2007**, | | 2 |
| 13 | 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 |
| 12 | 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 |

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| 11 | A queue scheduling approach to quality of service support in Diff-Serv networks using fuzzy logic **2012**, | | 1 |
| 10 | Handover Latency Measurement using Variant of Capwap Protocol. *Network Protocols and Algorithms*, **2011**, 3, | 0.3 | 1 |
| 9 | Comparison of intelligent schemes for scheduling OSPF routing table calculation **2011**, | | 1 |
| 8 | Novel Framework of Integrated Security and Safety System Using Hybrid Network Technology **2009** , | | 1 |
| 7 | 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 |
| 6 | Recent Advancement of Data-Driven Models in Wireless Sensor Networks: A Survey. *Technologies*, **2021**, 9, 76 | 2.4 | 1 |
| 5 | Vehicular Cloud Computing **2015**, 1049-1061 | | 1 |
| 4 | Grid Jobs Scheduling Improvement Using Priority Rules and Backfilling. *Communications in Computer and Information Science*, **2011**, 401-415 | 0.3 | 0 |
| 3 | Optimized Reliable Hybrid Routing Protocol Based Link Stability for Mobile Wireless Networks. *Wireless Personal Communications*, **2018**, 102, 473-493 | 1.9 | 0 |
| 2 | 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 | |
| 1 | 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 | |