

# Ashish Kr Luhach

## 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.

72  
papers

501  
citations

13  
h-index

16  
g-index

78  
ext. papers

788  
ext. citations

2.2  
avg, IF

4.79  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 72 | A Novel Patient-Centric Architectural Framework for Blockchain-Enabled Healthcare Applications. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 5779-5789                                   | 11.9 | 33        |
| 71 | A genetic algorithm for energy efficient fog layer resource management in context-aware smart cities. <i>Sustainable Cities and Society</i> , <b>2020</b> , 63, 102428   | 10.1 | 25        |
| 70 | DRFS: Detecting Risk Factor of Stroke Disease from Social Media Using Machine Learning Techniques. <i>Neural Processing Letters</i> , <b>2020</b> , 1  | 2.4  | 22        |
| 69 | A Neuro-fuzzy approach for user behaviour classification and prediction. <i>Journal of Cloud Computing: Advances, Systems and Applications</i> , <b>2019</b> , 8,  | 3.2  | 22        |
| 68 | Supervised link prediction using structured-based feature extraction in social network. <i>Concurrency Computation Practice and Experience</i> , <b>2020</b> , e5839   | 1.4  | 18        |
| 67 | Energy and Delay Aware Data Aggregation in Routing Protocol for Internet of Things. <i>Sensors</i> , <b>2019</b> , 19,   | 3.8  | 18        |
| 66 | Deep learning with perspective modeling for early detection of malignancy in mammograms. <i>Journal of Discrete Mathematical Sciences and Cryptography</i> , <b>2019</b> , 22, 627-643                             | 1.7  | 17        |
| 65 | Evolution of wireless sensor network design from technology centric to user centric: An architectural perspective. <i>International Journal of Distributed Sensor Networks</i> , <b>2020</b> , 16, 155014772094913 | 1.7  | 17        |
| 64 | Hybrid chaotic firefly decision making model for Parkinson disease diagnosis. <i>International Journal of Distributed Sensor Networks</i> , <b>2020</b> , 16, 155014771989521                                      | 1.7  | 15        |
| 63 | IOT based Air Quality Monitoring System Using MQ135 and MQ7 with Machine Learning Analysis. <i>Scalable Computing</i> , <b>2019</b> , 20, 599-606  | 2.4  | 15        |
| 62 | RTSM: Response time optimisation during switch migration in software-defined wide area network. <i>IET Wireless Sensor Systems</i> , <b>2020</b> , 10, 105-111   | 1.6  | 14        |
| 61 | Analysis of Lightweight Cryptographic Solutions for Internet of Things. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,   | 1    | 14        |
| 60 | Energy-Aware Task Allocation for Multi-Cloud Networks. <i>IEEE Access</i> , <b>2020</b> , 8, 178825-178834   | 3.5  | 13        |
| 59 | Detection and Analysis of Lung Cancer Using Radiomic Approach <b>2019</b> , 13-24  |      | 12        |
| 58 | CT-RPL: Cluster Tree Based Routing Protocol to Maximize the Lifetime of Internet of Things. <i>Sensors</i> , <b>2020</b> , 20,   | 3.8  | 11        |
| 57 | A novel Software-Defined Drone Network (SDDN)-based collision avoidance strategies for on-road traffic monitoring and management. <i>Vehicular Communications</i> , <b>2021</b> , 28, 100313                       | 5.7  | 11        |
| 56 | Artificial intelligence based commuter behaviour profiling framework using Internet of things for real-time decision-making. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 16057-16071              | 4.8  | 10        |

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|----|--|-----|---|
| 55 | Real-time automated video highlight generation with dual-stream hierarchical growing self-organizing maps. <i>Journal of Real-Time Image Processing</i> , <b>2020</b> , 18, 1457   | 1.9 | 9 |
| 54 | Nature inspired route optimization in vehicular adhoc network <b>2016</b> ,  |     | 9 |
| 53 | Classification and Identification of Primitive Kharif Crops using Supervised Deep Convolutional Networks. <i>Sustainable Computing: Informatics and Systems</i> , <b>2020</b> , 28, 100340                                   | 3   | 9 |
| 52 | . <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 5329-5340   | 6.1 | 9 |
| 51 | Energy-aware grid-based data aggregation scheme in routing protocol for agricultural internet of things. <i>Sustainable Computing: Informatics and Systems</i> , <b>2020</b> , 28, 100422                                    | 3   | 8 |
| 50 | Pandemic COVID-19: An empirical analysis of impact on Indian higher education system. <i>Journal of Statistics and Management Systems</i> , <b>2021</b> , 24, 341-355  | 0.9 | 8 |
| 49 | Soft-computing-based false alarm reduction for hierarchical data of intrusion detection system. <i>International Journal of Distributed Sensor Networks</i> , <b>2019</b> , 15, 155014771988313                              | 1.7 | 7 |
| 48 | A Systematic Survey on Congestion Mechanisms of CoAP Based Internet of Things. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 306-317   | 0.3 | 7 |
| 47 | Designing A Logical Security Framework for E-Commerce System Based on SOA. <i>International Journal on Soft Computing</i> , <b>2014</b> , 5, 1-10  | 2   | 7 |
| 46 | Performance of Energy Conservation Models, Generic, Micaz and Micamotes, using AODV Routing Protocol on a Wireless Sensor Network. <i>Scalable Computing</i> , <b>2019</b> , 20, 631-639                                     | 2.4 | 7 |
| 45 | Classification and analysis of users review using different classification techniques in intelligent e-learning system. <i>International Journal of Intelligent Information and Database Systems</i> , <b>2020</b> , 13, 139 | 0.3 | 7 |
| 44 | An Optimal Load Balancing Technique for Cloud Computing Environment using Bat Algorithm. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,  | 1   | 7 |
| 43 | Remote Pulmonary Function Test Monitoring in Cloud Platform via Smartphone Built-in Microphone. <i>Evolutionary Bioinformatics</i> , <b>2019</b> , 15, 1176934319888904  | 1.9 | 7 |
| 42 | Energy efficient optimal parent selection based routing protocol for Internet of Things using firefly optimization algorithm. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2021</b> , 32, e4171      | 1.9 | 7 |
| 41 | A Resource Management Algorithm for Virtual Machine Migration in Vehicular Cloud Computing. <i>Computers, Materials and Continua</i> , <b>2021</b> , 67, 2647-2663   | 3.9 | 7 |
| 40 | Predicting the motivators of telemedicine acceptance in COVID-19 pandemic using multiple regression and ANN approach. <i>Journal of Statistics and Management Systems</i> , <b>2021</b> , 24, 319-339                        | 0.9 | 7 |
| 39 | Dynamic MODCOD and power allocation in DVB-S2: a hybrid intelligent approach. <i>Telecommunication Systems</i> , <b>2021</b> , 76, 49-61   | 2.3 | 6 |
| 38 | Improved fault-tolerant optimal route reconstruction approach for energy consumed areas in wireless sensor networks. <i>IET Wireless Sensor Systems</i> , <b>2020</b> , 10, 112-116  | 1.6 | 5 |

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| 37 | Research and Analysis of Lightweight Cryptographic Solutions for Internet of Things <b>2016</b> ,  |      | 5 |
| 36 | Implementing the Logical Security Framework for E-Commerce Based on Service-Oriented Architecture. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 1-13   | 0.4  | 5 |
| 35 | Applying SOA to an E-commerce system and designing a logical security framework for small and medium sized E-commerce based on SOA <b>2014</b> ,   |      | 5 |
| 34 | Multi-criteria-based approach for job scheduling in industry 4.0 in smart cities using fuzzy logic. <i>Soft Computing</i> , <b>2021</b> , 25, 12059-12074  | 3.5  | 5 |
| 33 | The need for local adaptation of smart infrastructure for sustainable economic management. <i>Environmental Impact Assessment Review</i> , <b>2021</b> , 88, 106565  | 5.3  | 5 |
| 32 | Enhanced method of ANN based model for detection of DDoS attacks on multimedia internet of things. <i>Multimedia Tools and Applications</i> ,1   | 2.5  | 5 |
| 31 | An Ensemble-Based Scalable Approach for Intrusion Detection Using Big Data Framework. <i>Big Data</i> , <b>2021</b> , 9, 303-321   | 3.1  | 5 |
| 30 | Investigating TYPE constraint for frequent pattern mining. <i>Journal of Discrete Mathematical Sciences and Cryptography</i> , <b>2019</b> , 22, 605-626   | 1.7  | 4 |
| 29 | Honey Bee Optimization based Sink Mobility Aware Heterogeneous Protocol for Wireless Sensor Network. <i>Scalable Computing</i> , <b>2019</b> , 20, 591-598   | 2.4  | 4 |
| 28 | Layer Based Security in Internet of Things: Current Mechanisms, Prospective Attacks, and Future Orientation. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 896-903                               | 0.3  | 4 |
| 27 | The optimized energy-efficient sensible edge processing model for the internet of vehicles in smart cities. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 47, 101477                                | 4.7  | 4 |
| 26 | Zoomorphic Mobile Robot Development for Vertical Movement Based on the Geometrical Family Caterpillar.. <i>Computational Intelligence and Neuroscience</i> , <b>2022</b> , 2022, 3046116                                     | 3    | 3 |
| 25 | Performance Analysis of QMF Filter Bank For Wireless Voip in Pervasive Environment. <i>Recent Patents on Computer Science</i> , <b>2019</b> , 12, 349-353  | 1    | 3 |
| 24 | Classification of Plants Using Convolutional Neural Network. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 551-561  | 0.4  | 3 |
| 23 | Performance comparison of Apache Hadoop and Apache Spark <b>2019</b> ,   |      | 2 |
| 22 | To Enhance the Security in Wireless Nodes using Centralized and Synchronized IDS Technique. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,   | 1    | 2 |
| 21 | Demand-Supply Based Economic Model for Resource Provisioning in Industrial IoT Traffic. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1   | 10.7 | 2 |
| 20 | Comparison of Various Routing and Compression Algorithms: A Comparative Study of Various Algorithms in Wireless Networking. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 128-134 <sup>0.3</sup> |      | 2 |

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|----|--|-----|---|
| 19 | Motor imagery-based neuro-feedback system using neuronal excitation of the active synapses. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>2019</b> , 76, 413           | 2   | 2 |
| 18 | Research and analysis for adaptive IFIR Filters for voice quality enhancement in wireless VoIP. <i>Journal of Discrete Mathematical Sciences and Cryptography</i> , <b>2019</b> , 22, 581-590    | 1.7 | 1 |
| 17 | Speed of Things (SoT): Evolution of Isolation-to-Intermingle (I2I) Technology Transition Towards IoT. <i>Recent Patents on Computer Science</i> , <b>2019</b> , 12, 354-360                      | 1   | 1 |
| 16 | Efficient Digital Filter Banking Algorithm for Wireless VoIP. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 806-814  | 0.3 | 1 |
| 15 | An Approach to Analyse the Agriculture Acreage and Estimate Production. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,   | 1   | 1 |
| 14 | Research and Analysis of Open Security Issues in Communication for Wireless Sensor Network. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 135-142                    | 0.3 | 1 |
| 13 | Workplace safety and risk analysis using Additive Heterogeneous Hybridized Computational Model. <i>Aggression and Violent Behavior</i> , <b>2021</b> , 101558                                    | 3.9 | 1 |
| 12 | Automated classification of soil images using chaotic Henry gas solubility optimization: Smart agricultural system. <i>Microprocessors and Microsystems</i> , <b>2021</b> , 103854               | 2.4 | 1 |
| 11 | Epidemic Prediction using Machine Learning and Deep Learning Models on COVID-19 Data. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 1-17                              | 2   | 1 |
| 10 | NCCLA: new caledonian crow learning algorithm based cluster head selection for Internet of Things in smart cities. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 1            | 3.7 | 1 |
| 9  | Analyzing user typing behaviour in different positions using keystroke dynamics for mobile phones. <i>Journal of Discrete Mathematical Sciences and Cryptography</i> , <b>2019</b> , 22, 591-603 | 1.7 | 0 |
| 8  | Analysis of Enhanced Hybrid Approach Using Greedy Perimeter Stateless Routing in VANET. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 464-471                        | 0.3 | 0 |
| 7  | Big Data Analysis on Job Trends Using R. <i>Recent Advances in Computer Science and Communications</i> , <b>2021</b> , 14, 100-108   | 0.6 | 0 |
| 6  | Optimized Economic Loading of Distribution Transformers Using Minimum Energy Loss Computing. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-9                               | 1.1 | 0 |
| 5  | Electronic User Authentication Key for Access to HMI/SCADA via Unsecured Internet Networks.. <i>Computational Intelligence and Neuroscience</i> , <b>2022</b> , 2022, 5866922                    | 3   | 0 |
| 4  | A virtual execution platform for OpenFlow controller using NFV. <i>Journal of King Saud University - Computer and Information Sciences</i> , <b>2020</b> , 34, 964-964                           | 2.5 |   |
| 3  | Coauthorship Network Mining for Scholar Communication and Collaboration Path Recommendation. <i>Security and Communication Networks</i> , <b>2021</b> , 2021, 1-11                               | 1.9 |   |
| 2  | Trusted Service Evaluation for Mobile Edge Users: Challenges and Reviews. <i>Complexity</i> , <b>2021</b> , 2021, 1-10   | 1.6 |   |

- 1 A Quasistraight Line Routing Protocol for Square Grid-Based Wireless Sensor Networks. *Wireless Communications and Mobile Computing*, **2022**, 2022, 1-11 1.9