

Pradeep Kumar Singh

List of Publications by Year in descending order

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116
papers

2,288
citations

318942

23
h-index

299063

42
g-index

125
all docs

125
docs citations

125
times ranked

1693
citing authors

#	ARTICLE	IF	CITATIONS
1	RCBE-AS: Rabin cryptosystem-based efficient authentication scheme for wireless sensor networks. Personal and Ubiquitous Computing, 2024, 28, 171-192.	1.9	6
2	A threshold-based energy efficient military surveillance system using heterogeneous wireless sensor networks. Soft Computing, 2023, 27, 1163-1176.	2.1	8
3	Secure and robust color image dual watermarking based on LWT-DCT-SVD. Multimedia Tools and Applications, 2022, 81, 26721-26738.	2.6	26
4	A Trust Based Secure Intelligent Opportunistic Routing Protocol for Wireless Sensor Networks. Wireless Personal Communications, 2022, 127, 1045-1066.	1.8	15
5	A study on the sentiments and psychology of twitter users during COVID-19 lockdown period. Multimedia Tools and Applications, 2022, 81, 27009-27031.	2.6	38
6	Hybrid diabetes disease prediction framework based on data imputation and outlier detection techniques. Expert Systems, 2022, 39, e12785.	2.9	4
7	Robust and imperceptible image watermarking technique based on SVD, DCT, BEMD and PSO in wavelet domain. Multimedia Tools and Applications, 2022, 81, 22001-22026.	2.6	9
8	<scp>IVQF_{IoT}</scp>: An intelligent vulnerability quantification framework for scoring internet of things vulnerabilities. Expert Systems, 2022, 39, .	2.9	9
9	BoostNet: a method to enhance the performance of deep learning model on musculoskeletal radiographs X-ray images. International Journal of Systems Assurance Engineering and Management, 2022, 13, 658-672.	1.5	15
10	Discrete cosine transforms and genetic algorithm based watermarking method for robustness and imperceptibility of color images for intelligent multimedia applications. Multimedia Tools and Applications, 2022, 81, 19751-19777.	2.6	8
11	Data science appositeness in diabetes mellitus diagnosis for healthcare systems of developing nations. IET Communications, 2022, 16, 532-547.	1.5	15
12	On the Dynamics and Feasibility of Transferred Inference for Diagnosis of Invasive Ductal Carcinoma: A Perspective. IEEE Access, 2022, 10, 30870-30889.	2.6	6
13	GGA-MLP: A Greedy Genetic Algorithm to Optimize Weights and Biases in Multilayer Perceptron. Contrast Media and Molecular Imaging, 2022, 2022, 1-14.	0.4	5
14	Energy-Efficient and Secure Opportunistic Routing Protocol for WSN: Performance Analysis with Nature-Inspired Algorithms and Its Application in Biomedical Applications. BioMed Research International, 2022, 2022, 1-13.	0.9	10
15	An intelligent WSN-UAV-based IoT framework for precision agriculture application. Computers and Electrical Engineering, 2022, 100, 107912.	3.0	54
16	Intrusion Detection System Model for IoT Networks Using Ensemble Learning. Journal of Interconnection Networks, 2022, 22, .	0.6	1
17	An Improved Deep Belief Network IDS on IoT-Based Network for Traffic Systems. Journal of Advanced Transportation, 2022, 2022, 1-17.	0.9	15
18	IoT-Driven Model for Weather and Soil Conditions Based on Precision Irrigation Using Machine Learning. Security and Communication Networks, 2022, 2022, 1-10.	1.0	17

#	ARTICLE	IF	CITATIONS
19	A systematic survey on internet of things: Energy efficiency and interoperability perspective. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4166.	2.6	53
20	Leaf and spike wheat disease detection & classification using an improved deep convolutional architecture. Informatics in Medicine Unlocked, 2021, 25, 100642.	1.9	62
21	The Study of Synchronization in Quantum Key Distribution System. Communications in Computer and Information Science, 2021, , 68-80.	0.4	1
22	Internet of Things: Evolution, Concerns and Security Challenges. Sensors, 2021, 21, 1809.	2.1	88
23	Artificial Bee Colony and Deep Neural Network-Based Diagnostic Model for Improving the Prediction Accuracy of Diabetes. International Journal of E-Health and Medical Communications, 2021, 12, 32-50.	1.4	3
24	Modeling in Mechanical Engineering CAD Technology. Computer-Aided Design and Applications, 2021, 19, 1-14.	0.4	1
25	Application of CAD in Product Packaging Design Based on Green Concept. Computer-Aided Design and Applications, 2021, 19, 124-133.	0.4	10
26	Dance Movement Design Based on Computer Three-dimensional Auxiliary System. Computer-Aided Design and Applications, 2021, 19, 108-118.	0.4	4
27	An Exhaustive Research on the Application of Intrusion Detection Technology in Computer Network Security in Sensor Networks. Journal of Sensors, 2021, 2021, 1-11.	0.6	26
28	Computational Statistics and Machine Learning Techniques for Effective Decision Making on Studentâ€™s Employment for Real-Time. Mathematics, 2021, 9, 1166.	1.1	11
29	Enhancing Network lifetime and Throughput in Heterogeneous Wireless Sensor Networks. Wireless Personal Communications, 2021, 120, 2971.	1.8	1
30	Robust and Secure Watermarking for Propagation of Digital Multimedia by Paillier Homomorphic Cryptosystem With Arnold Transformation. International Journal of E-Health and Medical Communications, 2021, 12, 17-31.	1.4	4
31	Localization in Wireless Sensor Networks for Accurate Event Detection. International Journal of Healthcare Information Systems and Informatics, 2021, 16, 74-88.	1.0	12
32	A proficient data gathering technique for unmanned aerial vehicleâ€ enabled heterogeneous wireless sensor networks. International Journal of Communication Systems, 2021, 34, e4956.	1.6	8
33	Futuristic Technologies for Intelligent Manufacturing and Supply Chain Management. IET Collaborative Intelligent Manufacturing, 2021, 3, 203-204.	1.9	0
34	Impact of peak to average power ratio reduction techniques on Generalized Frequency Division Multiplexing for 5th generation systems. Computers and Electrical Engineering, 2021, 95, 107386.	3.0	13
35	Research on QR image code recognition system based on artificial intelligence algorithm. Journal of Intelligent Systems, 2021, 30, 855-867.	1.2	15
36	Accent labeling algorithm based on morphological rules and machine learning in English conversion system. Journal of Intelligent Systems, 2021, 30, 881-892.	1.2	2

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37	Deep neural network based anomaly detection in Internet of Things network traffic tracking for the applications of future smart cities. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4121.	2.6	46
38	Cardiac Diagnostic Feature and Demographic Identification (CDF-DI): An IoT Enabled Healthcare Framework Using Machine Learning. Sensors, 2021, 21, 6584.	2.1	11
39	Introduction to the Special Issue on Artificial Intelligence for Smart Cities and Industries. Scalable Computing, 2021, 22, 89-91.	0.7	1
40	Multiobjective evolutionary-based multi-kernel learner for realizing transfer learning in the prediction of HIV-1 protease cleavage sites. Soft Computing, 2020, 24, 9727-9751.	2.1	3
41	Machine Learning Adoption in Blockchain-Based Smart Applications: The Challenges, and a Way Forward. IEEE Access, 2020, 8, 474-488.	2.6	238
42	Computer aided diagnostic system based on SVM and K harmonic mean based attribute weighting method. Obesity Medicine, 2020, 19, 100270.	0.5	8
43	An Intelligent Opportunistic Routing Algorithm for Wireless Sensor Networks and Its Application Towards e-Healthcare. Sensors, 2020, 20, 3887.	2.1	40
44	Predicting Attitude of Indian Student's Towards ICT and Mobile Technology for Real-Time: Preliminary Results. IEEE Access, 2020, 8, 178022-178033.	2.6	14
45	IoVT: Internet of Vulnerable Things? Threat Architecture, Attack Surfaces, and Vulnerabilities in Internet of Things and Its Applications towards Smart Grids. Energies, 2020, 13, 4813.	1.6	40
46	A Systematic Study on the Analysis of the Emission of CO, CO2 and HC for Four-Wheelers and Its Impact on the Sustainable Ecosystem. Sustainability, 2020, 12, 6707.	1.6	39
47	Indoor Air Quality Monitoring Systems for Enhanced Living Environments: A Review toward Sustainable Smart Cities. Sustainability, 2020, 12, 4024.	1.6	43
48	A Rule-Based Monitoring System for Accurate Prediction of Diabetes. International Journal of E-Health and Medical Communications, 2020, 11, 32-53.	1.4	8
49	An integrated fire detection system using IoT and image processing technique for smart cities. Sustainable Cities and Society, 2020, 61, 102332.	5.1	123
50	A Survey on Decentralized Consensus Mechanisms for Cyber Physical Systems. IEEE Access, 2020, 8, 54371-54401.	2.6	121
51	Compositional framework for multitask learning in the identification of cleavage sites of HIV-1 protease. Journal of Biomedical Informatics, 2020, 102, 103376.	2.5	14
52	Class Imbalance Deep Learning for Bankruptcy Prediction. , 2020, , .		8
53	Hybrid System for Detection and Classification of Plant Disease Using Qualitative Texture Features Analysis. Procedia Computer Science, 2020, 167, 1056-1065.	1.2	38
54	Using NDN in Improving Energy Efficiency of MANET. Lecture Notes in Electrical Engineering, 2020, , 439-452.	0.3	1

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55	Introduction on Wireless Sensor Networks Issues and Challenges in Current Era. Advances in Intelligent Systems and Computing, 2020, , 3-12.	0.5	7
56	Implementation of Automated Aroma Therapy Candle Process Planting Using IoT and WSN. Advances in Intelligent Systems and Computing, 2020, , 520-545.	0.5	3
57	Implementation of Automated Retractable Roof for Home Line-Dry Suspension Area Using IoT and WSN. Advances in Intelligent Systems and Computing, 2020, , 546-565.	0.5	3
58	An Energy Efficient Trust Aware Opportunistic Routing Protocol for Wireless Sensor Network. , 2020, , 628-643.		6
59	The Significance of Using NDN in MANET. Lecture Notes in Electrical Engineering, 2020, , 421-437.	0.3	1
60	ToMRobot 2.0: Real Mobility Mechanism in MANET Testbed Using Mobile Robot. Communications in Computer and Information Science, 2020, , 146-163.	0.4	0
61	A Clustering Based Optimized PEGASIS in Wireless Sensor Networks. Communications in Computer and Information Science, 2020, , 177-195.	0.4	0
62	Testbed on MANET (ToM): Private Testbed Facility for MANET Experiment. Communications in Computer and Information Science, 2020, , 129-145.	0.4	0
63	Medium Access Control Protocols for Mission Critical Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2020, , 67-86.	0.5	1
64	An Effective Analysis and Performance Investigation of Energy Heterogeneity in Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2020, , 157-194.	0.5	5
65	Survey of robust and imperceptible watermarking. Multimedia Tools and Applications, 2019, 78, 8603-8633.	2.6	130
66	An efficient architecture for the accurate detection and monitoring of an event through the sky. Computer Communications, 2019, 148, 115-128.	3.1	49
67	Applicability of Wireless Sensor Networks in Precision Agriculture: A Review. Wireless Personal Communications, 2019, 107, 471-512.	1.8	107
68	Machine Learning-based Software Effort Estimation: An Analysis. , 2019, , .		7
69	GLCM Based Feature Extraction and Medical X-RAY Image Classification using Machine Learning Techniques. , 2019, , .		65
70	Stacking based approach for prediction of faulty modules. , 2019, , .		4
71	Deployment and Coverage in Wireless Sensor Networks: A Perspective. , 2019, , .		2
72	DDoS Detection Mechanism Using Trust-Based Evaluation System in VANET. IEEE Access, 2019, 7, 183532-183544.	2.6	77

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73	Compositional model based on factorial evolution for realizing multi-task learning in bacterial virulent protein prediction. <i>Artificial Intelligence in Medicine</i> , 2019, 101, 101757.	3.8	3
74	A chaotic teaching learning based optimization algorithm for clustering problems. <i>Applied Intelligence</i> , 2019, 49, 1036-1062.	3.3	42
75	A PHR-Based System for Monitoring Diabetes in Mobile Environment. <i>EAI/Springer Innovations in Communication and Computing</i> , 2019, , 129-144.	0.9	6
76	A Systematic Review on Scheduling Public Transport Using IoT as Tool. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 39-48.	0.5	24
77	SLA Constraint Quickest Path Problem for Data Transmission Services in Capacitated Networks. , 2019, , .		1
78	Performance Investigation of Energy Efficient HetSEP for Prolonging Lifetime in WSNs. <i>Communications in Computer and Information Science</i> , 2019, , 496-509.	0.4	5
79	A Taxonomy on Machine Learning Based Techniques to Identify the Heart Disease. <i>Communications in Computer and Information Science</i> , 2019, , 13-25.	0.4	1
80	Average Energy Analysis in Wireless Sensor Networks using Multitier Architecture. , 2019, , .		0
81	Improved cat swarm optimization algorithm for solving global optimization problems and its application to clustering. <i>Applied Intelligence</i> , 2018, 48, 2681-2697.	3.3	47
82	A Comparative Study on Decision-Making Capability Between Human and Artificial Intelligence. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 203-210.	0.5	12
83	A Systematic Review on Image Enhancement Techniques. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 227-235.	0.5	5
84	An Analytic Review on Image Enhancement Techniques Based on Soft Computing Approach. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 255-265.	0.5	6
85	Power Transmission Analysis in Wireless Sensor Networks Using Data Aggregation Techniques. <i>International Journal of Information System Modeling and Design</i> , 2018, 9, 37-53.	0.9	2
86	ToMRobot: A Low-Cost Robot for MANET Testbed. , 2018, , .		1
87	Tensor Decomposition of Biometric Data using Singular Value Decomposition. , 2018, , .		0
88	P2P Over MANET: A Review and Its Conceptual Framework. , 2018, , .		1
89	The Review of the Commercial Quantum Key Distribution System. , 2018, , .		15
90	Comparison and Analysis on Artificial Intelligence Based Data Aggregation Techniques in Wireless Sensor Networks. <i>Procedia Computer Science</i> , 2018, 132, 498-506.	1.2	24

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91	M-Tesla-Based Security Assessment in Wireless Sensor Network. Procedia Computer Science, 2018, 132, 1154-1162.	1.2	28
92	Real Time Monitoring of Valeriana Jatamansi Plant for Growth Analysis. Procedia Computer Science, 2018, 132, 507-517.	1.2	10
93	Privacy and Security issues in Big Data: Through Indian Prospective. , 2018, , .		10
94	Hybrid Approach for Intrusion Detection System. , 2018, , .		22
95	Study of some network parameters for chalcogenide glasses at an average coordination number 2.4. AIP Conference Proceedings, 2018, , .	0.3	2
96	Dolutegravir, Second Generation Integrase Inhibitor: A New Hope for HIV Patient. European Journal of Molecular and Clinical Medicine, 2018, 5, 20-29.	0.5	1
97	Towards Risk Based Effort Estimation. International Journal of Information System Modeling and Design, 2018, 9, 54-71.	0.9	1
98	An insight to forest fire detection techniques using wireless sensor networks. , 2017, , .		17
99	Fault localization in software testing using soft computing approaches. , 2017, , .		4
100	An analysis on the potentials of Vertical Greenery System (VGS) in context to the application viewpoint. , 2017, , .		3
101	An Energy Efficient Trust Aware Opportunistic Routing Protocol for Wireless Sensor Network. International Journal of Information System Modeling and Design, 2017, 8, 30-44.	0.9	8
102	Synchronization in Quantum Key Distribution Systems. Cryptography, 2017, 1, 18.	1.4	13
103	Intelligent Transport System: A Progressive Review. Indian Journal of Science and Technology, 2016, 9, .	0.5	33
104	A Systematic Analysis on Mobile Application Software Vulnerabilities: Issues and Challenges. Indian Journal of Science and Technology, 2016, 9, .	0.5	3
105	Analyzing and interpreting the fault localized using PCA with CK metrics. , 2016, , .		2
106	Analytical review on object segmentation and recognition. , 2016, , .		9
107	A survey on Shadow Detection and Removal in images and video sequences. , 2016, , .		14
108	Analytical review on human activity recognition in video. , 2016, , .		4

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109	Novel Digital Image Water Marking Technique Against Geometric Attacks. International Journal of Modern Education and Computer Science, 2015, 7, 61-68.	2.4	5
110	A process metrics based framework for Aspect Oriented Software to predict software bugs and maintenance. , 2014, , .		1
111	A systematic review on fault based mutation testing techniques and tools for Aspect-J programs. , 2013, , .		17
112	Aspect Oriented Software Metrics Based Maintainability Assessment: Framework and Model. , 2013, , .		5
113	Autonomic computing: A revolutionary paradigm for implementing self-managing systems. , 2011, , .		1
114	Weight similarity measurement model based, object oriented approach for bug databases mining to detect similar and duplicate bugs. , 2009, , .		12
115	UAVâ€­based framework for effective data analysis of forest fire detection using 5G networks: An effective approach towards smart cities solutions. International Journal of Communication Systems, 0, , e4826.	1.6	20
116	Genetic algorithm-based data controlling method using IoT-enabled WSN in power grid. Soft Computing, 0, , .	2.1	1