

# Pradeep Kumar Singh

## List of Publications by Year in descending order

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116  
papers

2,288  
citations

279778

23  
h-index

265191

42  
g-index

125  
all docs

125  
docs citations

125  
times ranked

1526  
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning Adoption in Blockchain-Based Smart Applications: The Challenges, and a Way Forward. IEEE Access, 2020, 8, 474-488.	4.2	238
2	Survey of robust and imperceptible watermarking. Multimedia Tools and Applications, 2019, 78, 8603-8633.	3.9	130
3	An integrated fire detection system using IoT and image processing technique for smart cities. Sustainable Cities and Society, 2020, 61, 102332.	10.4	123
4	A Survey on Decentralized Consensus Mechanisms for Cyber Physical Systems. IEEE Access, 2020, 8, 54371-54401.	4.2	121
5	Applicability of Wireless Sensor Networks in Precision Agriculture: A Review. Wireless Personal Communications, 2019, 107, 471-512.	2.7	107
6	Internet of Things: Evolution, Concerns and Security Challenges. Sensors, 2021, 21, 1809.	3.8	88
7	DDoS Detection Mechanism Using Trust-Based Evaluation System in VANET. IEEE Access, 2019, 7, 183532-183544.	4.2	77
8	GLCM Based Feature Extraction and Medical X-RAY Image Classification using Machine Learning Techniques. , 2019, . .		65
9	Leaf and spike wheat disease detection & classification using an improved deep convolutional architecture. Informatics in Medicine Unlocked, 2021, 25, 100642.	3.4	62
10	An intelligent WSN-UAV-based IoT framework for precision agriculture application. Computers and Electrical Engineering, 2022, 100, 107912.	4.8	54
11	A systematic survey on internet of things: Energy efficiency and interoperability perspective. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4166.	3.9	53
12	An efficient architecture for the accurate detection and monitoring of an event through the sky. Computer Communications, 2019, 148, 115-128.	5.1	49
13	Improved cat swarm optimization algorithm for solving global optimization problems and its application to clustering. Applied Intelligence, 2018, 48, 2681-2697.	5.3	47
14	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.	3.9	46
15	Indoor Air Quality Monitoring Systems for Enhanced Living Environments: A Review toward Sustainable Smart Cities. Sustainability, 2020, 12, 4024.	3.2	43
16	A chaotic teaching learning based optimization algorithm for clustering problems. Applied Intelligence, 2019, 49, 1036-1062.	5.3	42
17	An Intelligent Opportunistic Routing Algorithm for Wireless Sensor Networks and Its Application Towards e-Healthcare. Sensors, 2020, 20, 3887.	3.8	40
18	IoT: Internet of Vulnerable Things? Threat Architecture, Attack Surfaces, and Vulnerabilities in Internet of Things and Its Applications towards Smart Grids. Energies, 2020, 13, 4813.	3.1	40

#	ARTICLE	IF	CITATIONS
19	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.	3.2	39
20	Hybrid System for Detection and Classification of Plant Disease Using Qualitative Texture Features Analysis. Procedia Computer Science, 2020, 167, 1056-1065.	2.0	38
21	A study on the sentiments and psychology of twitter users during COVID-19 lockdown period. Multimedia Tools and Applications, 2022, 81, 27009-27031.	3.9	38
22	Intelligent Transport System: A Progressive Review. Indian Journal of Science and Technology, 2016, 9, .	0.7	33
23	M-Tesla-Based Security Assessment in Wireless Sensor Network. Procedia Computer Science, 2018, 132, 1154-1162.	2.0	28
24	Secure and robust color image dual watermarking based on LWT-DCT-SVD. Multimedia Tools and Applications, 2022, 81, 26721-26738.	3.9	26
25	An Exhaustive Research on the Application of Intrusion Detection Technology in Computer Network Security in Sensor Networks. Journal of Sensors, 2021, 2021, 1-11.	1.1	26
26	Comparison and Analysis on Artificial Intelligence Based Data Aggregation Techniques in Wireless Sensor Networks. Procedia Computer Science, 2018, 132, 498-506.	2.0	24
27	A Systematic Review on Scheduling Public Transport Using IoT as Tool. Advances in Intelligent Systems and Computing, 2019, , 39-48.	0.6	24
28	Hybrid Approach for Intrusion Detection System. , 2018, , .		22
29	UAV-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.	2.5	20
30	A systematic review on fault based mutation testing techniques and tools for Aspect-J programs. , 2013, , .		17
31	An insight to forest fire detection techniques using wireless sensor networks. , 2017, , .		17
32	IoT-Driven Model for Weather and Soil Conditions Based on Precision Irrigation Using Machine Learning. Security and Communication Networks, 2022, 2022, 1-10.	1.5	17
33	The Review of the Commercial Quantum Key Distribution System. , 2018, , .		15
34	A Trust Based Secure Intelligent Opportunistic Routing Protocol for Wireless Sensor Networks. Wireless Personal Communications, 2022, 127, 1045-1066.	2.7	15
35	Research on QR image code recognition system based on artificial intelligence algorithm. Journal of Intelligent Systems, 2021, 30, 855-867.	1.6	15
36	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.	2.4	15

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37	Data science appositeness in diabetes mellitus diagnosis for healthcare systems of developing nations. IET Communications, 2022, 16, 532-547.	2.2	15
38	An Improved Deep Belief Network IDS on IoT-Based Network for Traffic Systems. Journal of Advanced Transportation, 2022, 2022, 1-17.	1.7	15
39	A survey on Shadow Detection and Removal in images and video sequences. , 2016, , .		14
40	Predicting Attitude of Indian Studentâ€™s Towards ICT and Mobile Technology for Real-Time: Preliminary Results. IEEE Access, 2020, 8, 178022-178033.	4.2	14
41	Compositional framework for multitask learning in the identification of cleavage sites of HIV-1 protease. Journal of Biomedical Informatics, 2020, 102, 103376.	4.3	14
42	Synchronization in Quantum Key Distribution Systems. Cryptography, 2017, 1, 18.	2.3	13
43	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.	4.8	13
44	Weight similarity measurement model based, object oriented approach for bug databases mining to detect similar and duplicate bugs. , 2009, , .		12
45	A Comparative Study on Decision-Making Capability Between Human and Artificial Intelligence. Advances in Intelligent Systems and Computing, 2018, , 203-210.	0.6	12
46	Localization in Wireless Sensor Networks for Accurate Event Detection. International Journal of Healthcare Information Systems and Informatics, 2021, 16, 74-88.	0.9	12
47	Computational Statistics and Machine Learning Techniques for Effective Decision Making on Studentâ€™s Employment for Real-Time. Mathematics, 2021, 9, 1166.	2.2	11
48	Cardiac Diagnostic Feature and Demographic Identification (CDF-DI): An IoT Enabled Healthcare Framework Using Machine Learning. Sensors, 2021, 21, 6584.	3.8	11
49	Real Time Monitoring of Valeriana Jatamansi Plant for Growth Analysis. Procedia Computer Science, 2018, 132, 507-517.	2.0	10
50	Privacy and Security issues in Big Data: Through Indian Prospective. , 2018, , .		10
51	Application of CAD in Product Packaging Design Based on Green Concept. Computer-Aided Design and Applications, 2021, 19, 124-133.	0.6	10
52	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.	1.9	10
53	Analytical review on object segmentation and recognition. , 2016, , .		9
54	Robust and imperceptible image watermarking technique based on SVD, DCT, BEMD and PSO in wavelet domain. Multimedia Tools and Applications, 2022, 81, 22001-22026.	3.9	9

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55	<scp>IVQF<sub>IoT</sub></scp>: An intelligent vulnerability quantification framework for scoring internet of things vulnerabilities. Expert Systems, 2022, 39, .	4.5	9
56	An Energy Efficient Trust Aware Opportunistic Routing Protocol for Wireless Sensor Network. International Journal of Information System Modeling and Design, 2017, 8, 30-44.	1.1	8
57	Computer aided diagnostic system based on SVM and K harmonic mean based attribute weighting method. Obesity Medicine, 2020, 19, 100270.	0.9	8
58	A Rule-Based Monitoring System for Accurate Prediction of Diabetes. International Journal of E-Health and Medical Communications, 2020, 11, 32-53.	1.6	8
59	Class Imbalance Deep Learning for Bankruptcy Prediction. , 2020, , .		8
60	A threshold-based energy efficient military surveillance system using heterogeneous wireless sensor networks. Soft Computing, 2023, 27, 1163-1176.	3.6	8
61	A proficient data gathering technique for unmanned aerial vehicleâ€enabled heterogeneous wireless sensor networks. International Journal of Communication Systems, 2021, 34, e4956.	2.5	8
62	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.	3.9	8
63	Machine Learning-based Software Effort Estimation: An Analysis. , 2019, , .		7
64	Introduction on Wireless Sensor Networks Issues and Challenges in Current Era. Advances in Intelligent Systems and Computing, 2020, , 3-12.	0.6	7
65	An Analytic Review on Image Enhancement Techniques Based on Soft Computing Approach. Advances in Intelligent Systems and Computing, 2018, , 255-265.	0.6	6
66	RCBE-AS: Rabin cryptosystemâ€based efficient authentication scheme for wireless sensor networks. Personal and Ubiquitous Computing, 2024, 28, 171-192.	2.8	6
67	A PHR-Based System for Monitoring Diabetes in Mobile Environment. EAI/Springer Innovations in Communication and Computing, 2019, , 129-144.	1.1	6
68	An Energy Efficient Trust Aware Opportunistic Routing Protocol for Wireless Sensor Network. , 2020, , 628-643.		6
69	On the Dynamics and Feasibility of Transferred Inference for Diagnosis of Invasive Ductal Carcinoma: A Perspective. IEEE Access, 2022, 10, 30870-30889.	4.2	6
70	Aspect Oriented Software Metrics Based Maintainability Assessment: Framework and Model. , 2013, , .		5
71	A Systematic Review on Image Enhancement Techniques. Advances in Intelligent Systems and Computing, 2018, , 227-235.	0.6	5
72	Novel Digital Image Water Marking Technique Against Geometric Attacks. International Journal of Modern Education and Computer Science, 2015, 7, 61-68.	2.7	5

#	ARTICLE	IF	CITATIONS
73	Performance Investigation of Energy Efficient HetSEP for Prolonging Lifetime in WSNs. Communications in Computer and Information Science, 2019, , 496-509.	0.5	5
74	An Effective Analysis and Performance Investigation of Energy Heterogeneity in Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2020, , 157-194.	0.6	5
75	GGA-MLP: A Greedy Genetic Algorithm to Optimize Weights and Biases in Multilayer Perceptron. Contrast Media and Molecular Imaging, 2022, 2022, 1-14.	0.8	5
76	Analytical review on human activity recognition in video. , 2016, , .		4
77	Fault localization in software testing using soft computing approaches. , 2017, , .		4
78	Stacking based approach for prediction of faulty modules. , 2019, , .		4
79	Dance Movement Design Based on Computer Three-dimensional Auxiliary System. Computer-Aided Design and Applications, 2021, 19, 108-118.	0.6	4
80	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.	1.6	4
81	Hybrid diabetes disease prediction framework based on data imputation and outlier detection techniques. Expert Systems, 2022, 39, e12785.	4.5	4
82	A Systematic Analysis on Mobile Application Software Vulnerabilities: Issues and Challenges. Indian Journal of Science and Technology, 2016, 9, .	0.7	3
83	An analysis on the potentials of Vertical Greenery System (VGS) in context to the application viewpoint. , 2017, , .		3
84	Compositional model based on factorial evolution for realizing multi-task learning in bacterial virulent protein prediction. Artificial Intelligence in Medicine, 2019, 101, 101757.	6.5	3
85	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.	3.6	3
86	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.	1.6	3
87	Implementation of Automated Aroma Therapy Candle Process Planting Using IoT and WSN. Advances in Intelligent Systems and Computing, 2020, , 520-545.	0.6	3
88	Implementation of Automated Retractable Roof for Home Line-Dry Suspension Area Using IoT and WSN. Advances in Intelligent Systems and Computing, 2020, , 546-565.	0.6	3
89	Analyzing and interpreting the fault localized using PCA with CK metrics. , 2016, , .		2
90	Power Transmission Analysis in Wireless Sensor Networks Using Data Aggregation Techniques. International Journal of Information System Modeling and Design, 2018, 9, 37-53.	1.1	2

#	ARTICLE	IF	CITATIONS
91	Study of some network parameters for chalcogenide glasses at an average coordination number 2.4. AIP Conference Proceedings, 2018, , .	0.4	2
92	Deployment and Coverage in Wireless Sensor Networks: A Perspective. , 2019, , .		2
93	Accent labeling algorithm based on morphological rules and machine learning in English conversion system. Journal of Intelligent Systems, 2021, 30, 881-892.	1.6	2
94	Autonomic computing: A revolutionary paradigm for implementing self-managing systems. , 2011, , .		1
95	A process metrics based framework for Aspect Oriented Software to predict software bugs and maintenance. , 2014, , .		1
96	ToMRobot: A Low-Cost Robot for MANET Testbed. , 2018, , .		1
97	P2P Over MANET: A Review and Its Conceptual Framework. , 2018, , .		1
98	The Study of Synchronization in Quantum Key Distribution System. Communications in Computer and Information Science, 2021, , 68-80.	0.5	1
99	Modeling in Mechanical Engineering CAD Technology. Computer-Aided Design and Applications, 2021, 19, 1-14.	0.6	1
100	Enhancing Network lifetime and Throughput in Heterogeneous Wireless Sensor Networks. Wireless Personal Communications, 2021, 120, 2971.	2.7	1
101	Using NDN in Improving Energy Efficiency of MANET. Lecture Notes in Electrical Engineering, 2020, , 439-452.	0.4	1
102	SLA Constraint Quickest Path Problem for Data Transmission Services in Capacitated Networks. , 2019, , .		1
103	Dolutegravir, Second Generation Integrase Inhibitor: A New Hope for HIV Patient. European Journal of Molecular and Clinical Medicine, 2018, 5, 20-29.	0.1	1
104	Towards Risk Based Effort Estimation. International Journal of Information System Modeling and Design, 2018, 9, 54-71.	1.1	1
105	A Taxonomy on Machine Learning Based Techniques to Identify the Heart Disease. Communications in Computer and Information Science, 2019, , 13-25.	0.5	1
106	The Significance of Using NDN in MANET. Lecture Notes in Electrical Engineering, 2020, , 421-437.	0.4	1
107	Medium Access Control Protocols for Mission Critical Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2020, , 67-86.	0.6	1
108	Introduction to the Special Issue on Artificial Intelligence for Smart Cities and Industries. Scalable Computing, 2021, 22, 89-91.	1.0	1

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109	Intrusion Detection System Model for IoT Networks Using Ensemble Learning. Journal of Interconnection Networks, 2022, 22, .	1.0	1
110	Genetic algorithm-based data controlling method using IoT-enabled WSN in power grid. Soft Computing, 0, , .	3.6	1
111	Tensor Decomposition of Biometric Data using Singular Value Decomposition. , 2018, , .		0
112	Futuristic Technologies for Intelligent Manufacturing and Supply Chain Management. IET Collaborative Intelligent Manufacturing, 2021, 3, 203-204.	3.3	0
113	Average Energy Analysis in Wireless Sensor Networks using Multitier Architecture. , 2019, , .		0
114	ToMRobot 2.0: Real Mobility Mechanism in MANET Testbed Using Mobile Robot. Communications in Computer and Information Science, 2020, , 146-163.	0.5	0
115	A Clustering Based Optimized PEGASIS in Wireless Sensor Networks. Communications in Computer and Information Science, 2020, , 177-195.	0.5	0
116	Testbed on MANET (ToM): Private Testbed Facility for MANET Experiment. Communications in Computer and Information Science, 2020, , 129-145.	0.5	0