

Nitin Mittal

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,431
citations

361413

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345221

36
g-index

57
all docs

57
docs citations

57
times ranked

870
citing authors

#	ARTICLE	IF	CITATIONS
1	Modified Grey Wolf Optimizer for Global Engineering Optimization. Applied Computational Intelligence and Soft Computing, 2016, 2016, 1-16.	2.3	207
2	A stable energy efficient clustering protocol for wireless sensor networks. Wireless Networks, 2017, 23, 1809-1821.	3.0	104
3	A boolean spider monkey optimization based energy efficient clustering approach for WSNs. Wireless Networks, 2018, 24, 2093-2109.	3.0	81
4	Mechanical Strength Enhancement of 3D Printed Acrylonitrile Butadiene Styrene Polymer Components Using Neural Network Optimization Algorithm. Polymers, 2020, 12, 2250.	4.5	79
5	A Novel Energy Efficient Stable Clustering Approach for Wireless Sensor Networks. Wireless Personal Communications, 2017, 95, 2947-2971.	2.7	69
6	Moth Flame Optimization Based Energy Efficient Stable Clustered Routing Approach for Wireless Sensor Networks. Wireless Personal Communications, 2019, 104, 677-694.	2.7	69
7	Self-adaptive salp swarm algorithm for engineering optimization problems. Applied Mathematical Modelling, 2021, 89, 188-207.	4.2	58
8	Distance-Based Residual Energy-Efficient Stable Election Protocol for WSNs. Arabian Journal for Science and Engineering, 2015, 40, 1637-1646.	1.1	54
9	Optimization of FFF Process Parameters by Naked Mole-Rat Algorithms with Enhanced Exploration and Exploitation Capabilities. Polymers, 2021, 13, 1702.	4.5	52
10	An energy-aware cluster-based stable protocol for wireless sensor networks. Neural Computing and Applications, 2019, 31, 7269-7286.	5.6	51
11	Image segmentation using multilevel thresholding based on type II fuzzy entropy and marine predators algorithm. Multimedia Tools and Applications, 2021, 80, 19335-19359.	3.9	36
12	A multilevel thresholding algorithm using LebTLBO for image segmentation. Neural Computing and Applications, 2020, 32, 16681-16706.	5.6	35
13	An energy efficient stable clustering approach using fuzzy extended grey wolf optimization algorithm for WSNs. Wireless Networks, 2019, 25, 5151-5172.	3.0	34
14	Design and Analysis of High-Speed Free Space Optical (FSO) Communication System for Supporting Fifth Generation (5G) Data Services in Diverse Geographical Locations of India. IEEE Photonics Journal, 2021, 13, 1-12.	2.0	32
15	An energy-efficient stable clustering approach using fuzzy-enhanced flower pollination algorithm for WSNs. Neural Computing and Applications, 2020, 32, 7399-7419.	5.6	30
16	Trust-aware energy-efficient stable clustering approach using fuzzy type-2 Cuckoo search optimization algorithm for wireless sensor networks. Wireless Networks, 2021, 27, 151-174.	3.0	29
17	An efficient localization approach to locate sensor nodes in 3D wireless sensor networks using adaptive flower pollination algorithm. Wireless Networks, 2021, 27, 1999-2014.	3.0	29
18	Efficient localisation approach for WSNs using hybrid DA&FA algorithm. IET Communications, 2020, 14, 1975-1991.	2.2	27

#	ARTICLE	IF	CITATIONS
19	A hybridized multi-algorithm strategy for engineering optimization problems. Knowledge-Based Systems, 2021, 217, 106790.	7.1	23
20	Hybridization of water wave optimization and sequential quadratic programming for cognitive radio system. Soft Computing, 2019, 23, 7991-8011.	3.6	22
21	Review of Various Image Fusion Algorithms and Image Fusion Performance Metric. Archives of Computational Methods in Engineering, 2021, 28, 3645-3659.	10.2	22
22	Metamaterial Integrated Folded Dipole Antenna with Low SAR for 4G, 5G and NB-IoT Applications. Electronics (Switzerland), 2021, 10, 2612.	3.1	22
23	A self-adaptive hybridized differential evolution naked mole-rat algorithm for engineering optimization problems. Computer Methods in Applied Mechanics and Engineering, 2021, 383, 113916.	6.6	20
24	Tree-Based Threshold-Sensitive Energy-Efficient Routing Approach For Wireless Sensor Networks. Wireless Personal Communications, 2019, 108, 473-492.	2.7	16
25	Flower pollination algorithm-based energy-efficient stable clustering approach for WSNs. International Journal of Communication Systems, 2020, 33, e4337.	2.5	14
26	Improvement in learning enthusiasm-based TLBO algorithm with enhanced exploration and exploitation properties. Natural Computing, 2021, 20, 577-609.	3.0	13
27	Naked Mole-Rat Algorithm with Improved Exploration and Exploitation Capabilities to Determine 2D and 3D Coordinates of Sensor Nodes in WSNs. Arabian Journal for Science and Engineering, 2021, 46, 1155-1178.	3.0	13
28	A multilevel thresholding algorithm using HDAFA for image segmentation. Soft Computing, 2021, 25, 10677-10708.	3.6	13
29	A feature level image fusion for IR and visible image using mNMRA based segmentation. Neural Computing and Applications, 2022, 34, 8137-8154.	5.6	13
30	Nature and Biologically Inspired Image Segmentation Techniques. Archives of Computational Methods in Engineering, 2022, 29, 1415-1442.	10.2	12
31	Comparison of range-based versus range-free WSNs localization using adaptive SSA algorithm. Wireless Networks, 2022, 28, 1625-1647.	3.0	12
32	Adaptive Flower Pollination Algorithm-Based Energy Efficient Routing Protocol for Multi-Robot Systems. IEEE Access, 2021, 9, 82417-82434.	4.2	11
33	Performance evaluation of Non-Uniform circular antenna array using integrated harmony search with Differential Evolution based Naked Mole Rat algorithm. Expert Systems With Applications, 2022, 189, 116146.	7.6	11
34	An Efficient Adaptive Salp Swarm Algorithm Using Type II Fuzzy Entropy for Multilevel Thresholding Image Segmentation. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-14.	1.3	11
35	Performance analysis of free space optical communication system under rain weather conditions: a case study for inland and coastal locations of India. Optical and Quantum Electronics, 2021, 53, 1.	3.3	10
36	An Energy Efficient Stable Clustering Approach Using Fuzzy Type-2 Bat Flower Pollinator for Wireless Sensor Networks. Wireless Personal Communications, 2020, 112, 1137-1163.	2.7	9

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37	Multi-population and dynamic-iterative cuckoo search algorithm for linear antenna array synthesis. Applied Soft Computing Journal, 2021, 113, 108004.	7.2	9
38	Mode Division Multiplexing (MDM) Based Hybrid PON-FSO System for Last-Mile Connectivity. , 2021, , .		9
39	A novel hybrid range-free approach to locate sensor nodes in 3D WSN using GWO-FA algorithm. Telecommunication Systems, 2022, 80, 303-323.	2.5	8
40	Multifocus Image Fusion Based on Multiresolution Pyramid and Bilateral Filter. IETE Journal of Research, 2022, 68, 2476-2487.	2.6	7
41	Optimized localization using naked mole-rat algorithm in dynamic wireless sensor networks. International Journal of Communication Systems, 2021, 34, e4832.	2.5	7
42	Designing and analysis of non-symmetric dual layer CRLH metamaterial. Journal of Magnetism and Magnetic Materials, 2021, 538, 168269.	2.3	7
43	Synthesis of Non-Uniform Circular Antenna Array for Low Side Lobe Level and High Directivity Using Self-Adaptive Cuckoo Search Algorithm. Arabian Journal for Science and Engineering, 2022, 47, 3105-3118.	3.0	6
44	Designing and analysis of frequency reconfigurable double negative flower leaf metamaterial resonator. Materials Today: Proceedings, 2020, 33, 1552-1557.	1.8	5
45	Analyzing the Impact of Fog and Atmospheric Turbulence on the Deployment of Free-Space Optical Communication Links in India. Arabian Journal for Science and Engineering, 2022, 47, 2691-2710.	3.0	5
46	Multi-exposure microscopic image fusion-based detail enhancement algorithm. Ultramicroscopy, 2022, 236, 113499.	1.9	4
47	Linear antenna array synthesis using bat flower pollinator. , 2017, , .		3
48	An Improved LEACH-MF Protocol to Prolong Lifetime of Wireless Sensor Networks. , 2018, , .		3
49	9. Classification of various image fusion algorithms and their performance evaluation metrics. , 2020, , 179-198.		3
50	An Energy Efficient Clustered Routing Protocols for Wireless Sensor Networks. Intelligent Systems Reference Library, 2020, , 581-596.	1.2	3
51	Predictive modeling of surface and dimensional features of vapour-smoothened FDM parts using self-adaptive cuckoo search algorithm. Progress in Additive Manufacturing, 2022, 7, 1023-1036.	4.8	3
52	Mobility based application specific low power routing protocol for wireless sensor networks. , 2015, , .		2
53	Optimized localization of sensor nodes in 3D WSNs using modified learning enthusiasm-based teaching learning based optimization algorithm. IET Communications, 2021, 15, 1223-1239.	2.2	2
54	An approach to localize the blind node and optimizing parameters by using PSO. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
55	An Energy-saving Approach for Error control Codes in Wireless Sensor Networks. , 2021, , .		0