

# Nitin Mittal

## List of Publications by Year in descending order

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55  
papers

1,431  
citations

361413

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h-index

345221

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g-index

57  
all docs

57  
docs citations

57  
times ranked

870  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifocus Image Fusion Based on Multiresolution Pyramid and Bilateral Filter. IETE Journal of Research, 2022, 68, 2476-2487.	2.6	7
2	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
3	Nature and Biologically Inspired Image Segmentation Techniques. Archives of Computational Methods in Engineering, 2022, 29, 1415-1442.	10.2	12
4	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
5	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
6	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
7	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
8	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
9	Comparison of range-based versus range-free WSNs localization using adaptive SSA algorithm. Wireless Networks, 2022, 28, 1625-1647.	3.0	12
10	Multi-exposure microscopic image fusion-based detail enhancement algorithm. Ultramicroscopy, 2022, 236, 113499.	1.9	4
11	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
12	Improvement in learning enthusiasm-based TLBO algorithm with enhanced exploration and exploitation properties. Natural Computing, 2021, 20, 577-609.	3.0	13
13	Self-adaptive salp swarm algorithm for engineering optimization problems. Applied Mathematical Modelling, 2021, 89, 188-207.	4.2	58
14	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
15	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
16	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
17	Adaptive Flower Pollination Algorithm-Based Energy Efficient Routing Protocol for Multi-Robot Systems. IEEE Access, 2021, 9, 82417-82434.	4.2	11
18	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

#	ARTICLE	IF	CITATIONS
19	Image segmentation using multilevel thresholding based on type II fuzzy entropy and marine predators algorithm. <i>Multimedia Tools and Applications</i> , 2021, 80, 19335-19359.	3.9	36
20	Review of Various Image Fusion Algorithms and Image Fusion Performance Metric. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 3645-3659.	10.2	22
21	Optimized localization of sensor nodes in 3D WSNs using modified learning enthusiasm-based teaching learning based optimization algorithm. <i>IET Communications</i> , 2021, 15, 1223-1239.	2.2	2
22	Performance analysis of free space optical communication system under rain weather conditions: a case study for inland and coastal locations of India. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	10
23	Optimized localization using naked mole-rat algorithm in dynamic wireless sensor networks. <i>International Journal of Communication Systems</i> , 2021, 34, e4832.	2.5	7
24	A hybridized multi-algorithm strategy for engineering optimization problems. <i>Knowledge-Based Systems</i> , 2021, 217, 106790.	7.1	23
25	Optimization of FFF Process Parameters by Naked Mole-Rat Algorithms with Enhanced Exploration and Exploitation Capabilities. <i>Polymers</i> , 2021, 13, 1702.	4.5	52
26	A multilevel thresholding algorithm using HDAFA for image segmentation. <i>Soft Computing</i> , 2021, 25, 10677-10708.	3.6	13
27	A self-adaptive hybridized differential evolution naked mole-rat algorithm for engineering optimization problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 383, 113916.	6.6	20
28	Designing and analysis of non-symmetric dual layer CRLH metamaterial. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 538, 168269.	2.3	7
29	Multi-population and dynamic-iterative cuckoo search algorithm for linear antenna array synthesis. <i>Applied Soft Computing Journal</i> , 2021, 113, 108004.	7.2	9
30	Metamaterial Integrated Folded Dipole Antenna with Low SAR for 4G, 5G and NB-IoT Applications. <i>Electronics (Switzerland)</i> , 2021, 10, 2612.	3.1	22
31	An Energy-saving Approach for Error control Codes in Wireless Sensor Networks. , 2021, , .		0
32	Mode Division Multiplexing (MDM) Based Hybrid PON-FSO System for Last-Mile Connectivity. , 2021, , .		9
33	An energy-efficient stable clustering approach using fuzzy-enhanced flower pollination algorithm for WSNs. <i>Neural Computing and Applications</i> , 2020, 32, 7399-7419.	5.6	30
34	Mechanical Strength Enhancement of 3D Printed Acrylonitrile Butadiene Styrene Polymer Components Using Neural Network Optimization Algorithm. <i>Polymers</i> , 2020, 12, 2250.	4.5	79
35	9. Classification of various image fusion algorithms and their performance evaluation metrics. , 2020, , 179-198.		3
36	Efficient localisation approach for WSNs using hybrid DAFA algorithm. <i>IET Communications</i> , 2020, 14, 1975-1991.	2.2	27

#	ARTICLE	IF	CITATIONS
37	An Energy Efficient Stable Clustering Approach Using Fuzzy Type-2 Bat Flower Pollinator for Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2020, 112, 1137-1163.	2.7	9
38	Flower pollination algorithm based energy efficient stable clustering approach for WSNs. <i>International Journal of Communication Systems</i> , 2020, 33, e4337.	2.5	14
39	Designing and analysis of frequency reconfigurable double negative flower leaf metamaterial resonator. <i>Materials Today: Proceedings</i> , 2020, 33, 1552-1557.	1.8	5
40	An Energy Efficient Clustered Routing Protocols for Wireless Sensor Networks. <i>Intelligent Systems Reference Library</i> , 2020, , 581-596.	1.2	3
41	A multilevel thresholding algorithm using LebTLBO for image segmentation. <i>Neural Computing and Applications</i> , 2020, 32, 16681-16706.	5.6	35
42	An energy-aware cluster-based stable protocol for wireless sensor networks. <i>Neural Computing and Applications</i> , 2019, 31, 7269-7286.	5.6	51
43	Hybridization of water wave optimization and sequential quadratic programming for cognitive radio system. <i>Soft Computing</i> , 2019, 23, 7991-8011.	3.6	22
44	An energy efficient stable clustering approach using fuzzy extended grey wolf optimization algorithm for WSNs. <i>Wireless Networks</i> , 2019, 25, 5151-5172.	3.0	34
45	Tree-Based Threshold-Sensitive Energy-Efficient Routing Approach For Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2019, 108, 473-492.	2.7	16
46	Moth Flame Optimization Based Energy Efficient Stable Clustered Routing Approach for Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2019, 104, 677-694.	2.7	69
47	A boolean spider monkey optimization based energy efficient clustering approach for WSNs. <i>Wireless Networks</i> , 2018, 24, 2093-2109.	3.0	81
48	An Improved LEACH-MF Protocol to Prolong Lifetime of Wireless Sensor Networks. , 2018, , .		3
49	A stable energy efficient clustering protocol for wireless sensor networks. <i>Wireless Networks</i> , 2017, 23, 1809-1821.	3.0	104
50	A Novel Energy Efficient Stable Clustering Approach for Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2017, 95, 2947-2971.	2.7	69
51	Linear antenna array synthesis using bat flower pollinator. , 2017, , .		3
52	Modified Grey Wolf Optimizer for Global Engineering Optimization. <i>Applied Computational Intelligence and Soft Computing</i> , 2016, 2016, 1-16.	2.3	207
53	An approach to localize the blind node and optimizing parameters by using PSO. , 2016, , .		1
54	Mobility based application specific low power routing protocol for wireless sensor networks. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
55	Distance-Based Residual Energy-Efficient Stable Election Protocol for WSNs. Arabian Journal for Science and Engineering, 2015, 40, 1637-1646.	1.1	54