

Dilbag singh

List of Publications by Year in Descending Order

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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.

141 papers	2,753 citations	32 h-index	48 g-index
164 ext. papers	3,761 ext. citations	2.7 avg, IF	6.79 L-index

#	Paper	IF	Citations
141	Hybrid Genetic Firefly Algorithm-Based Routing Protocol for VANETs. <i>IEEE Access</i> , 2022 , 10, 9142-9151	3.5	7
140	Efficient Stochastic Model for Operational Availability Optimization of Cooling Tower using Metaheuristic Algorithms. <i>IEEE Access</i> , 2022 , 1-1	3.5	11
139	Juice Jacking: Security Issues and Improvements in USB Technology. <i>Sustainability</i> , 2022 , 14, 939	3.6	4
138	Improved seven-dimensional (i7D) hyperchaotic map-based image encryption technique. <i>Soft Computing</i> , 2022 , 26, 2689	3.5	0
137	6+: A Novel Approach for Building Extraction from a Medium Resolution Multi-Spectral Satellite. <i>Sustainability</i> , 2022 , 14, 1615	3.6	0
136	Systematic Review of Security Vulnerabilities in Ethereum Blockchain Smart Contract. <i>IEEE Access</i> , 2022 , 10, 6605-6621	3.5	20
135	Privacy Protection Framework for Android. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
134	A Novel Compressed and Accelerated Convolution Neural Network for COVID-19 Disease Classification: A Genetic Algorithm Based Approach. <i>Communications in Computer and Information Science</i> , 2022 , 99-111	0.3	0
133	Effect of countermeasure bodygear on cardiac-vascular-respiratory coupling during 6-degree head-down tilt: An earth-based microgravity study.. <i>Life Sciences in Space Research</i> , 2022 , 32, 45-53	2.4	
132	Evolving Fusion-Based Visibility Restoration Model for Hazy Remote Sensing Images Using Dynamic Differential Evolution. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 60, 1-14	8.1	10
131	Mining and Interpretation of Critical Aspects of Infant Health Status Using Multi-Objective Evolutionary Feature Selection Approaches. <i>IEEE Access</i> , 2022 , 10, 32622-32638	3.5	1
130	Improved seven-dimensional (i7D) hyperchaotic map-based image encryption technique. <i>Soft Computing</i> , 2022 , 26, 3703-3712	3.5	0
129	Untangling Computer-Aided Diagnostic System for Screening Diabetic Retinopathy Based on Deep Learning Techniques.. <i>Sensors</i> , 2022 , 22,	3.8	2
128	Two-Way Feature Extraction for Speech Emotion Recognition Using Deep Learning.. <i>Sensors</i> , 2022 , 22,	3.8	6
127	Classification and Analysis of Pistachio Species with Pre-Trained Deep Learning Models. <i>Electronics (Switzerland)</i> , 2022 , 11, 981	2.6	3
126	Performance Analysis of Wavelet Filters for Heart Rate Variability Analysis. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 107-116	0.4	
125	Probabilistic Framework Allocation on Underwater Vehicular Systems Using Hydrophone Sensor Networks. <i>Water (Switzerland)</i> , 2022 , 14, 1292	3	1

124	Efficient Fine Tuned Trapezoidal Fuzzy-based Model for Failure Mode Effect Analysis Risk Prioritization. <i>IEEE Access</i> , 2022 , 1-1	3.5	
123	Ethereum Smart Contract Analysis Tools: A Systematic Review. <i>IEEE Access</i> , 2022 , 1-1	3.5	4
122	Artificial Intelligence-Based Cyber-Physical System for Severity Classification of Chikungunya Disease. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2022 , 10, 1-9	3	0
121	Classification of the COVID-19 infected patients using DenseNet201 based deep transfer learning. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 5682-5689	3.6	212
120	Lamb waves in nonlocal elastic plate with voids. <i>Journal of Mechanics of Materials and Structures</i> , 2021 , 16, 389-405	1.2	0
119	Screening of COVID-19 Suspected Subjects Using Multi-Crossover Genetic Algorithm Based Dense Convolutional Neural Network. <i>IEEE Access</i> , 2021 , 9, 142566-142580	3.5	26
118	Detection and localization of S and S heart sounds by 3rd order normalized average Shannon energy envelope algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021 , 235, 615-624	1.7	0
117	Predicting Elections Results using Social Media Activity A Case Study: USA Presidential Election 2020 2021 ,		1
116	Metaheuristic-based Deep COVID-19 Screening Model from Chest X-Ray Images. <i>Journal of Healthcare Engineering</i> , 2021 , 2021, 8829829	3.7	39
115	Two-Way Feature Extraction Using Sequential and Multimodal Approach for Hateful Meme Classification. <i>Complexity</i> , 2021 , 2021, 1-7	1.6	4
114	Effect of Novel Designed Bodygear on Gastrocnemius and Soleus Muscles during Stepping in Human Body. <i>Microgravity Science and Technology</i> , 2021 , 33, 1	1.6	2
113	Drug Synergy Prediction Using Dynamic Mutation Based Differential Evolution. <i>Current Pharmaceutical Design</i> , 2021 , 27, 1103-1111	3.3	5
112	Overview of current state of research on the application of artificial intelligence techniques for COVID-19. <i>PeerJ Computer Science</i> , 2021 , 7, e564	2.7	22
111	Availability and performance optimization of physical processing unit in sewage treatment plant using genetic algorithm and particle swarm optimization. <i>International Journal of Systems Assurance Engineering and Management</i> , 2021 , 12, 1235	1.3	1
110	Dingo Optimizer: A Nature-Inspired Metaheuristic Approach for Engineering Problems. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-12	1.1	18
109	Data Clustering Using Moth-Flame Optimization Algorithm. <i>Sensors</i> , 2021 , 21,	3.8	15
108	Automatic Detection of Power Quality Disturbance Using Convolutional Neural Network Structure with Gated Recurrent Unit. <i>Mobile Information Systems</i> , 2021 , 2021, 1-11	1.4	1
107	Characterization of Electromyographical Signals from Biceps and Rectus Femoris Muscles to Evaluate the Performance of Squats Coupled with Countermeasure Gravitational Load Modulating Bodygear. <i>Microgravity Science and Technology</i> , 2021 , 33, 1	1.6	0

106	Multiobjective evolutionary optimization techniques based hyperchaotic map and their applications in image encryption. <i>Multidimensional Systems and Signal Processing</i> , 2021 , 32, 281-301	1.8	46
105	Deep Neural Network-Based Screening Model for COVID-19-Infected Patients Using Chest X-Ray Images. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2021 , 35, 2151004	1.1	49
104	Screening of COVID-19 Patients Using Deep Learning and IoT Framework. <i>Computers, Materials and Continua</i> , 2021 , 69, 3459-3475	3.9	5
103	A Novel Binary Seagull Optimizer and its Application to Feature Selection Problem. <i>IEEE Access</i> , 2021 , 9, 103481-103496	3.5	6
102	Diabetic Retinopathy Diagnosis From Fundus Images Using Stacked Generalization of Deep Models. <i>IEEE Access</i> , 2021 , 9, 108276-108292	3.5	27
101	Densely connected convolutional networks-based COVID-19 screening model. <i>Applied Intelligence</i> , 2021 , 51, 1-8	4.9	43
100	Comparative Regression Analysis for Estimating Resonant Frequency of C-Like Patch Antennas. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-8	1.1	1
99	Impact of Metaheuristic Techniques in Pandemic of COVID-19. <i>Coronaviruses</i> , 2021 , 2,	1.5	1
98	3D Modelling of the Scattering of the Fundamental Anti-Symmetric Lamb Mode (A0) Propagating within a Point-Impacted Transverse-Isotropic Composite Plate. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7276	2.6	
97	Dual preferred learning embedded asynchronous differential evolution with adaptive parameters for engineering applications. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2021 , 46, 1	1	
96	Secure and Energy Efficient-Based E-Health Care Framework for Green Internet of Things. <i>IEEE Transactions on Green Communications and Networking</i> , 2021 , 5, 1223-1231	4	33
95	Classification of COVID-19 patients from chest CT images using multi-objective differential evolution-based convolutional neural networks. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2020 , 39, 1379-1389	5.3	275
94	Automated Deep Transfer Learning-Based Approach for Detection of COVID-19 Infection in Chest X-rays. <i>Irbm</i> , 2020 ,	4.8	88
93	Color image dehazing using gradient channel prior and guided L0 filter. <i>Information Sciences</i> , 2020 , 521, 326-342	7.7	46
92	Color image encryption using non-dominated sorting genetic algorithm with local chaotic search based 5D chaotic map. <i>Future Generation Computer Systems</i> , 2020 , 107, 333-350	7.5	70
91	Investigation of heart rate variability with the help of Welch periodogram in Indian young adults based on body physique 2020 , 51-57		4
90	Deep Q learning-based mitigation of man in the middle attack over secure sockets layer websites. <i>Modern Physics Letters B</i> , 2020 , 34, 2050366	1.6	0
89	Enhancing Future Relationship in Social Network Using Semantics Prediction to Predict Links. <i>Lecture Notes in Networks and Systems</i> , 2020 , 511-520	0.5	

88	Parallel strength Pareto evolutionary algorithm-II based image encryption. <i>IET Image Processing</i> , 2020 , 14, 1015-1026	1.7	43
87	Image dehazing using window-based integrated means filter. <i>Multimedia Tools and Applications</i> , 2020 , 79, 34771-34793	2.5	9
86	Fusion of medical images using deep belief networks. <i>Cluster Computing</i> , 2020 , 23, 1439-1453	2.1	33
85	Plane harmonic waves in a thermoelastic solid with double porosity. <i>Mathematics and Mechanics of Solids</i> , 2020 , 25, 869-886	2.3	10
84	Identifying heart-brain interactions during internally and externally operative attention using conditional entropy. <i>Biomedical Signal Processing and Control</i> , 2020 , 57, 101826	4.9	3
83	An efficient image steganography method using multiobjective differential evolution 2020 , 65-79		2
82	Rapid COVID-19 diagnosis using ensemble deep transfer learning models from chest radiographic images. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 1-13	3.7	48
81	Color image encryption using minimax differential evolution-based 7D hyper-chaotic map. <i>Applied Physics B: Lasers and Optics</i> , 2020 , 126, 1	1.9	40
80	A Comprehensive Review on Image Encryption Techniques. <i>Archives of Computational Methods in Engineering</i> , 2020 , 27, 15-43	7.8	61
79	An efficient image encryption using non-dominated sorting genetic algorithm-III based 4-D chaotic maps. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 11, 1309-1324	3.7	55
78	Effect of COVID-19 outbreak on urban health and environment. <i>Air Quality, Atmosphere and Health</i> , 2020 , 14, 1-9	5.6	14
77	Multi-modality medical image fusion technique using multi-objective differential evolution based deep neural networks. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 12, 1-11	3.7	33
76	Single image defogging by gain gradient image filter. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	21
75	Love waves in a nonlocal elastic media with voids. <i>JVC/Journal of Vibration and Control</i> , 2019 , 25, 1470-1483		11
74	Detecting changes in cardiovascular interaction during postural stress using directed coherence. <i>Signal, Image and Video Processing</i> , 2019 , 13, 1521-1528	1.6	1
73	Single image dehazing using gradient channel prior. <i>Applied Intelligence</i> , 2019 , 49, 4276-4293	4.9	52
72	Assessment of Scale Invariance Changes in Heart Rate Signal During Postural Shift. <i>IETE Journal of Research</i> , 2019 , 1-7	0.9	1
71	Multi-objective differential evolution based random forest for e-health applications. <i>Modern Physics Letters B</i> , 2019 , 33, 1950022	1.6	49

70	A Novel Framework for Drug Synergy Prediction using Differential Evolution based Multinomial Random Forest. <i>International Journal of Advanced Computer Science and Applications</i> , 2019 , 10,	1.7	4
69	Neural Network Technique for Diabetic Retinopathy Detection. <i>International Journal of Engineering and Advanced Technology</i> , 2019 , 8, 440-445	1.6	4
68	A Comprehensive Review of Computational Dehazing Techniques. <i>Archives of Computational Methods in Engineering</i> , 2019 , 26, 1395-1413	7.8	43
67	Image dehazing using Moore neighborhood-based gradient profile prior. <i>Signal Processing: Image Communication</i> , 2019 , 70, 131-144	2.8	31
66	Multi-objective particle swarm optimization-based adaptive neuro-fuzzy inference system for benzene monitoring. <i>Neural Computing and Applications</i> , 2019 , 31, 2195-2205	4.8	45
65	Improved Particle Swarm Optimization Based Adaptive Neuro-Fuzzy Inference System for Benzene Detection. <i>Clean - Soil, Air, Water</i> , 2018 , 46, 1700162	1.6	43
64	IDENTIFYING DEEP BREATH EFFECT ON CARDIOVASCULAR SIGNALS USING CONDITIONAL ENTROPY: AN INFORMATION DOMAIN APPROACH. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2018 , 30, 1850012	0.6	3
63	Single image haze removal using integrated dark and bright channel prior. <i>Modern Physics Letters B</i> , 2018 , 32, 1850051	1.6	43
62	Dehazing of remote sensing images using fourth-order partial differential equations based bilateral filter. <i>IET Computer Vision</i> , 2018 , 12, 208-219	1.4	33
61	Dehazing of outdoor images using notch based integral guided filter. <i>Multimedia Tools and Applications</i> , 2018 , 77, 27363-27386	2.5	33
60	Impact of respiration on cardiovascular coupling using Granger causality analysis in healthy subjects. <i>Biomedical Signal Processing and Control</i> , 2018 , 43, 196-203	4.9	4
59	Rayleigh-type wave in a nonlocal elastic solid with voids. <i>European Journal of Mechanics, A/Solids</i> , 2018 , 71, 134-150	3.7	19
58	Defogging of road images using gain coefficient-based bilateral filter. <i>Journal of Electronic Imaging</i> , 2018 , 27, 1	0.7	27
57	Comprehensive survey on haze removal techniques. <i>Multimedia Tools and Applications</i> , 2018 , 77, 9595-9629	2.9	38
56	Remote sensing image fusion using fuzzy logic and gyrator transform. <i>Remote Sensing Letters</i> , 2018 , 9, 942-951	2.3	17
55	A novel dehazing model for remote sensing images. <i>Computers and Electrical Engineering</i> , 2018 , 69, 14-27	4.3	32
54	Dilatational waves at a microstretch solid/fluid interface. <i>JVC/Journal of Vibration and Control</i> , 2017 , 23, 3448-3467	2	7
53	Waves in Nonlocal Elastic Solid with Voids. <i>Journal of Elasticity</i> , 2017 , 128, 85-114	1.5	57

52	Efficient Landsat image fusion using fuzzy and stationary discrete wavelet transform. <i>Imaging Science Journal</i> , 2017 , 65, 108-114	0.9	31
51	Dehazing of remote sensing images using improved restoration model based dark channel prior. <i>Imaging Science Journal</i> , 2017 , 65, 282-292	0.9	37
50	Modified gain intervention filter based dehazing technique. <i>Journal of Modern Optics</i> , 2017 , 64, 2165-2178	1.8	36
49	Non - Invasive Feto - Maternal Well - Being Monitoring: A Review of Methods. <i>Journal of Engineering Science and Technology Review</i> , 2017 , 10, 177-190	1.8	3
48	Segmentation of cancerous regions in liver using an edge-based and phase congruent region enhancement method. <i>Computers and Electrical Engineering</i> , 2016 , 53, 244-262	4.3	10
47	An adaptive technique for multiscale approximate entropy (MAEbin) threshold (r) selection: application to heart rate variability (HRV) and systolic blood pressure variability (SBPV) under postural stress. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016 , 39, 557-69	1.9	2
46	Remote sensing image contrast and brightness enhancement based on Cuckoo search and DTCWT-SVD 2016 ,		2
45	Rayleigh-Type Surface Waves in a Swelling Porous Half-Space. <i>Transport in Porous Media</i> , 2016 , 113, 91-109	1.9	9
44	A new baroreflex sensitivity index based on improved Hilbert-Huang transform for assessment of baroreflex in supine and standing postures. <i>Biocybernetics and Biomedical Engineering</i> , 2016 , 36, 355-365	5.7	4
43	Normal limits of the electrocardiogram in Indians. <i>Journal of Electrocardiology</i> , 2015 , 48, 652-68	1.4	9
42	RAYLEIGH WAVE IN A THERMO-VISCOELASTIC MATERIAL WITH VOIDS. <i>Special Topics and Reviews in Porous Media</i> , 2015 , 6, 283-296	2.5	2
41	Detection methods for blocking artefacts in transform coded images. <i>IET Image Processing</i> , 2014 , 8, 435-444	1.4	1
40	Electrocardiogram beat classification using empirical mode decomposition and multiclass directed acyclic graph support vector machine. <i>Computers and Electrical Engineering</i> , 2014 , 40, 1774-1787	4.3	19
39	Multifractal application on electrocardiogram. <i>Journal of Medical Engineering and Technology</i> , 2014 , 38, 55-61	1.8	13
38	K-nearest neighbour-based algorithm for P- and T-waves detection and delineation. <i>Journal of Medical Engineering and Technology</i> , 2014 , 38, 115-24	1.8	12
37	Delineation of ECG Wave Components Using K-Nearest Neighbor (KNN) Algorithm: ECG Wave Delineation Using KNN 2013 ,		13
36	QRS detection using K-Nearest Neighbor algorithm (KNN) and evaluation on standard ECG databases. <i>Journal of Advanced Research</i> , 2013 , 4, 331-44	13	153
35	P- and T-wave delineation in ECG signals using support vector machine. <i>IETE Journal of Research</i> , 2013 , 59, 615	0.9	5

34	Detection of QRS-complex using K-nearest neighbour algorithm. <i>International Journal of Medical Engineering and Informatics</i> , 2013 , 5, 81	0.5	4
33	Sizing of impact damages in composite materials using ultrasonic guided waves. <i>NDT and E International</i> , 2012 , 46, 22-31	4.1	41
32	A framework for hosting web services in cloud computing environment with high availability 2012 ,		5
31	High Availability of Clouds: Failover Strategies for Cloud Computing Using Integrated Checkpointing Algorithms 2012 ,		23
30	Improved occupancy grid mapping in specular environment. <i>Robotics and Autonomous Systems</i> , 2012 , 60, 1245-1252	3.5	13
29	Effect of Threshold Value r on Multiscale Entropy based Heart Rate Variability. <i>Cardiovascular Engineering and Technology</i> , 2012 , 3, 211-216	2.2	10
28	Ectopic beats in approximate entropy and sample entropy-based HRV assessment. <i>International Journal of Systems Science</i> , 2012 , 43, 884-893	2.3	16
27	Support vector machine-based QRS-detection - evaluation on standard databases. <i>International Journal of Medical Engineering and Informatics</i> , 2012 , 4, 299	0.5	2
26	Modified multiscale entropy in HRV for automatic selection of threshold value r . <i>International Journal of Medical Engineering and Informatics</i> , 2012 , 4, 55	0.5	1
25	Numerical and asymptotic approach for evaluating complex wavenumbers of guided modes in viscoelastic plates. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 764-71	2.2	9
24	Blocking artefact detection in block-based DCT compressed images. <i>International Journal of Signal and Imaging Systems Engineering</i> , 2011 , 4, 181	3.5	1
23	Detection method and filters for blocking effect reduction of highly compressed images. <i>Signal Processing: Image Communication</i> , 2011 , 26, 493-506	2.8	1
22	Sizing strip-like defects in plates using guided waves. <i>NDT and E International</i> , 2011 , 44, 394-404	4.1	15
21	A signal adaptive filter for blocking effect reduction of JPEG compressed images. <i>AEU - International Journal of Electronics and Communications</i> , 2011 , 65, 827-839	2.8	14
20	Ectopic beats and editing methods for Poincare-plot-based HRV. <i>International Journal of Biomedical Engineering and Technology</i> , 2011 , 7, 353	1.3	2
19	Optimal Lomb transform variant in HRV assessment. <i>International Journal of Medical Engineering and Informatics</i> , 2010 , 2, 177	0.5	1
18	Heart Rate Variability-A Bibliographical Survey. <i>IETE Journal of Research</i> , 2008 , 54, 209-216	0.9	6
17	Waves in a cylindrical borehole filled with micropolar fluid. <i>Journal of Applied Physics</i> , 2008 , 103, 124905	2.5	1

16	Longitudinal waves at a micropolar fluid/solid interface. <i>International Journal of Solids and Structures</i> , 2008 , 45, 225-244	3.1	16
15	Rayleigh-Lamb waves in a microstretch elastic plate clad with liquid layers. <i>Journal of Sound and Vibration</i> , 2007 , 302, 313-331	3.9	6
14	Time-evolution of cardiovascular variability during autonomic function tests in physiological investigations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 1772-5		3
13	The Time Evolution of Frequency Components of Heart Rate Variability Using Wavelets. <i>IETE Journal of Research</i> , 2006 , 52, 481-488	0.9	3
12	SVM based system for classification of microcalcifications in digital mammograms. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 4747-50		17
11	Propagation of Stoneley Waves at an Interface Between Two Microstretch Elastic Half-spaces. <i>JVC/Journal of Vibration and Control</i> , 2006 , 12, 995-1009	2	10
10	Wave propagation in micropolar mixture of porous media. <i>International Journal of Engineering Science</i> , 2006 , 44, 1304-1323	5.7	8
9	Improved modified AZTEC technique for ECG data compression: Effect of length of parabolic filter on reconstructed signal. <i>Computers and Electrical Engineering</i> , 2005 , 31, 334-344	4.3	37
8	Effects of RR segment duration on HRV spectrum estimation. <i>Physiological Measurement</i> , 2004 , 25, 721-359		31
7	Early diagnosis of COVID-19 patients using deep learning-based deep forest model. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 1-11	2	2
6	A Systematic Review of Metaheuristic-based Image Encryption Techniques. <i>Archives of Computational Methods in Engineering</i> , 1	7.8	2
5	Trigonometric mutation and successful-parent-selection based adaptive asynchronous differential evolution. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 1	3.7	3
4	A Comprehensive Study on Computational Pansharpening Techniques for Remote Sensing Images. <i>Archives of Computational Methods in Engineering</i> , 1	7.8	1
3	Surface waves in layered thermoelastic medium with double porosity structure: Rayleigh and Stoneley waves. <i>Mechanics of Advanced Materials and Structures</i> , 1-26	1.8	2
2	Waves in nonlocal elastic material with double porosity. <i>Archive of Applied Mechanics</i> , 1	2.2	1
1	Comprehensive Review of Orthogonal Regression and Its Applications in Different Domains. <i>Archives of Computational Methods in Engineering</i> ,	7.8	1