

Dhanalakshmi Samiappan

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

927
citations

567281

15
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118
all docs

118
docs citations

118
times ranked

393
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive survey on signal processing and machine learning techniques for non-invasive fetal ECG extraction. <i>Multimedia Tools and Applications</i> , 2023, 82, 1373-1400.	3.9	10
2	Variable-Stage Cascaded Adaptive Filter Technique for Signal De-Noiseing Application. <i>Circuits, Systems, and Signal Processing</i> , 2022, 41, 1972-2006.	2.0	4
3	Deep Neural Network Driven Automated Underwater Object Detection. <i>Computers, Materials and Continua</i> , 2022, 70, 5251-5267.	1.9	4
4	Structural Optimization of LMS Adaptive Filter Using Multi-stage Cascaded Configuration. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 71-80.	0.4	0
5	Coefficient Permuted Adaptive Block Compressed Sensing for Camera Enabled Underwater Wireless Sensor Nodes. <i>IEEE Sensors Journal</i> , 2022, 22, 776-784.	4.7	16
6	Thermal management of solar photovoltaic panels using a fibre Bragg grating sensor-based temperature monitoring. <i>Case Studies in Thermal Engineering</i> , 2022, 31, 101834.	5.7	9
7	Fiber Bragg grating sensor-based temperature monitoring of solar photovoltaic panels using machine learning algorithms. <i>Optical Fiber Technology</i> , 2022, 69, 102831.	2.7	19
8	Joint time-frequency analysis and non-linear estimation for fetal ECG extraction. <i>Biomedical Signal Processing and Control</i> , 2022, 75, 103569.	5.7	8
9	Radiological Analysis of COVID-19 Using Computational Intelligence: A Broad Gauge Study. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-25.	1.9	9
10	LOGISWARM: A low-cost multi-robot testbed for cooperative transport research. <i>Multimedia Tools and Applications</i> , 2022, 81, 27339-27362.	3.9	4
11	Discovering Knee Osteoarthritis Imaging Features for Diagnosis and Prognosis: Review of Manual Imaging Grading and Machine Learning Approaches. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-19.	1.9	27
12	Analysis of Carotid Artery Ultrasound Images Using Gabor Filter, Maximally Stable Extremal Regions and Convolutional Neural Network. <i>IFMBE Proceedings</i> , 2022, , 15-26.	0.3	1
13	Transmission spectra in one-dimensional Gaussian random multilayer photonic crystal. , 2022, , .		0
14	A Low-Cost Multistage Cascaded Adaptive Filter Configuration for Noise Reduction in Phonocardiogram Signal. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-24.	1.9	4
15	Emerging Feature Extraction Techniques for Machine Learning-Based Classification of Carotid Artery Ultrasound Images. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-14.	1.7	3
16	Analysis of transmission spectra in one-dimensional ternary photonic crystals with complex unit cell. <i>Optik</i> , 2022, 261, 169169.	2.9	7
17	Multiclass Convolution Neural Network for Classification of COVID-19 CT Images. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-15.	1.7	9
18	Tracking of Underwater Objects with Occlusion Awareness using an Adaptive DEEP SORT and GMM Approach. , 2022, , .		1

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19	A Low-Complexity Underwater Acoustic Signal Denoising Technique based on Multi-Stage Adaptive Filter Configuration. , 2022, , .		3
20	Employing the Reflected Amplitude of a Fibre Bragg Grating Sensor for High Resolution Salinity and Depth Measurement. , 2022, , .		2
21	Perceptual Variance Weight Matrix based Adaptive Block Compressed Sensing for Marine Image Compression. , 2022, , .		1
22	Occlusion aware underwater object tracking using hybrid adaptive deep SORT -YOLOv3 approach. Multimedia Tools and Applications, 2022, 81, 44109-44121.	3.9	7
23	Machine Learning Application of Transcranial Motor-Evoked Potential to Predict Positive Functional Outcomes of Patients. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.7	4
24	An IoMT enabled deep learning framework for automatic detection of fetal QRS: A solution to remote prenatal care. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 7200-7211.	3.9	6
25	A robust low-cost adaptive filtering technique for phonocardiogram signal denoising. Signal Processing, 2022, 201, 108688.	3.7	10
26	Underwater image compression using energy based adaptive block compressive sensing for IoUT applications. Visual Computer, 2021, 37, 1499-1515.	3.5	14
27	Adaptive block compressed sensing - a technological analysis and survey on challenges, innovation directions and applications. Multimedia Tools and Applications, 2021, 80, 4751-4768.	3.9	11
28	Fully Automated Integrated Segmentation of Carotid Artery Ultrasound Images Using DBSCAN and Affinity Propagation. Journal of Medical and Biological Engineering, 2021, 41, 260-271.	1.8	12
29	Comprehensive Study and Realizing an Enhanced Efficiency of the Thermoelectric Generator Along with Its Thermomechanical Properties. Journal of Electronic Materials, 2021, 50, 1726-1734.	2.2	3
30	Study of Various Structures of Bragg Fibers Based on Modal Analysis. Springer Proceedings in Physics, 2021, , 271-274.	0.2	1
31	Assembly of fibre bragg grating with optical tweezers for continuous detection and trapping of micro-particles. Optik, 2021, 228, 166215.	2.9	1
32	T-Count Optimized Quantum Circuit Designs for Single-Precision Floating-Point Division. Electronics (Switzerland), 2021, 10, 703.	3.1	17
33	Photonic bandgap characteristics of GaAs/AlAs-based one-dimensional quasi-periodic photonic crystal. Optik, 2021, 234, 166597.	2.9	14
34	Review of Fiber Optical Sensors and Its Importance in Sewer Corrosion Factor Analysis. Chemosensors, 2021, 9, 118.	3.6	14
35	An improved parallel sub-filter adaptive noise canceler for the extraction of fetal ECG. Biomedizinische Technik, 2021, 66, 503-514.	0.8	25
36	Development of a High Sensitive Refractive Index Sensor Based on Evanescent Wave Absorbance effect in Reflective Mode for Ocean Observation. Wireless Personal Communications, 2021, 121, 411-427.	2.7	3

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37	Tunable properties of one-dimensional GaAs/AlAs-based photonic crystal containing two defect layers. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2141.	2.1	5
38	T-Count Optimized Wallace Tree Integer Multiplier for Quantum Computing. International Journal of Theoretical Physics, 2021, 60, 2823-2835.	1.2	6
39	Design and Optimization of Thermoelectric Devices Toward Geometric Aspects and a Promising Electrode for Room-Temperature Wearable Applications. ECS Journal of Solid State Science and Technology, 2021, 10, 071022.	1.8	3
40	Double Talk Detection in hands-free mobile communication- A comprehensive survey. Journal of Physics: Conference Series, 2021, 1964, 062044.	0.4	0
41	Investigation of Peak Detection Algorithms for Fiber Bragg Grating Interrogation based Sensing Systems for Temperature, Depth and Salinity Measurements. Journal of Physics: Conference Series, 2021, 2007, 012057.	0.4	3
42	Sparsity Augmented Restoration of Underwater Images using Compressive Sensing. Journal of Physics: Conference Series, 2021, 2007, 012054.	0.4	0
43	High Performance of p-n Junction Thermoelectric Device for Wearable Application. ECS Journal of Solid State Science and Technology, 2021, 10, 081007.	1.8	0
44	Linear Temperature Distribution Sensor Using FBG in Liquids Local Heat Transfer Examination Application. IEEE Sensors Journal, 2021, 21, 16651-16658.	4.7	4
45	An experimental study on simultaneous electricity and heat production from solar PV with thermal energy storage. Energy Conversion and Management, 2021, 245, 114614.	9.2	39
46	Fetal heart rate estimation using fractional Fourier transform and wavelet analysis. Biocybernetics and Biomedical Engineering, 2021, 41, 1533-1547.	5.9	17
47	Underwater object detection based on bi-dimensional empirical mode decomposition and Gaussian Mixture Model approach. Ecological Informatics, 2021, 66, 101469.	5.2	18
48	T-count optimized quantum circuit for floating point addition and multiplication. Quantum Information Processing, 2021, 20, 1.	2.2	2
49	The Promise for Reducing Healthcare Cost with Predictive Model: An Analysis with Quantized Evaluation Metric on Readmission. Journal of Healthcare Engineering, 2021, 2021, 1-10.	1.9	9
50	Emergence of Deep Learning in Knee Osteoarthritis Diagnosis. Computational Intelligence and Neuroscience, 2021, 2021, 1-20.	1.7	40
51	Performance Analysis of Machine Learning and Deep Learning Architectures on Early Stroke Detection Using Carotid Artery Ultrasound Images. Frontiers in Aging Neuroscience, 2021, 13, 828214.	3.4	14
52	A Dynamic Inertial Weight Strategy in Micro PSO for Swarm Robots. Wireless Personal Communications, 2020, 110, 573-592.	2.7	7
53	Variable tap-length non-parametric variable step-size NLMS adaptive filtering algorithm for acoustic echo cancellation. Applied Acoustics, 2020, 159, 107074.	3.3	40
54	Enhancing Sensitivity of Fiber Bragg Grating-Based Temperature Sensors through Teflon Coating. Wireless Personal Communications, 2020, 110, 593-604.	2.7	22

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55	Sensitivity enhancement analysis due to different coating materials of Fibre Bragg Grating-based depth sensor for underwater applications. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	8
56	Diagnosis of Atherosclerotic Plaques in Carotid Artery using Transfer Learning. , 2020, , .		4
57	A COMPARISON ON VARIANTS OF LMS USED IN FIR ADAPTIVE NOISE CANCELLERS FOR FETAL ECG EXTRACTION. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2020, 32, 2050026.	0.6	11
58	n-GaAs based extrinsic Dodecanacci photonic quasicrystal. <i>Physica B: Condensed Matter</i> , 2020, 595, 412340.	2.7	13
59	Performance evaluation of unprocessed and pre-processed ultrasound images of carotid artery using CNN algorithm. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 912, 022030.	0.6	2
60	Self Navigation and Positioning Robot - SNAPBot. , 2020, , .		0
61	Implementation of quantum teleportation of photons across an air â€“ water interface. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	1
62	Development and experimental validation of a Nuttall apodized fiber Bragg Grating sensor with a hydrophobic polymer coating suitable for monitoring sea surface temperature. <i>Optical Fiber Technology</i> , 2020, 56, 102176.	2.7	7
63	Carotid artery ultrasound image analysis: A review of the literature. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 417-443.	1.8	28
64	Photonic transmission spectra in an extrinsic semiconductor based Gaussian random multilayer. <i>Optical Materials</i> , 2020, 102, 109799.	3.6	14
65	Enhancing Machine Learning Aptitude Using Significant Cluster Identification for Augmented Image Refining. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2020, 34, 2051009.	1.2	10
66	Discriminating the Temperature and Strain Responses of a Fibre Bragg Grating Sensor by Exploiting its Transmittance. , 2020, , .		0
67	Design and Performance Analysis of Optical Signal Processing Module in Open Air and Underwater Environment. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 701-710.	0.6	0
68	From Nonlinear Digital Filters to Shearlet Transform: A Comparative Evaluation of Denoising Filters Applied on Ultrasound Images. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 733-741.	0.6	0
69	Development of a highly accurate and fast responsive salinity sensor based on Nuttall apodized Fiber Bragg Grating coated with hygroscopic polymer for ocean observation. <i>Optical Fiber Technology</i> , 2019, 53, 102036.	2.7	21
70	A novel investigation on ZnO nanostructures on carbon fabric for harvesting thermopower on textile. <i>Applied Surface Science</i> , 2019, 496, 143658.	6.1	16
71	Computational analysis of thermally induced stress in corrosion-resistant metal coated fiber optic sensors for oceanographic application. <i>Optik</i> , 2019, 195, 163097.	2.9	7
72	Fusion of WPT and MFCC feature extraction in Parkinsonâ€™s disease diagnosis. <i>Technology and Health Care</i> , 2019, 27, 363-372.	1.2	34

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73	Underwater image restoration based on diffraction bounded optimization algorithm with dark channel prior. Optik, 2019, 192, 162925.	2.9	24
74	Bio-inspired cooperative diversity link in underwater optical wireless communication. Optics and Laser Technology, 2019, 116, 180-188.	4.6	3
75	Image Enhancement Using Surveillance System for Dead Zone. , 2019, , .		0
76	SPRINTER: A Discrete Locomotion Robot for Precision Swarm Printing. , 2019, , .		4
77	Saturable Absorbers for Mode-Locking of Lasers Operating at Ultraviolet Wavelengths. , 2019, , .		0
78	Multiple Sub-Filter Adaptive Noise Canceller for Fetal ECG Extraction. Procedia Computer Science, 2019, 165, 182-188.	2.0	20
79	Fiber optic sensors in ocean observation: A comprehensive review. Optik, 2019, 179, 351-360.	2.9	55
80	Analysis of Jitter and Shimmer for Parkinsonâ€™s Disease Diagnosis Using Telehealth. Advances in Intelligent Systems and Computing, 2019, , 711-721.	0.6	3
81	Despeckling of Carotid Artery Ultrasound Images with a Calculus Approach. Current Medical Imaging, 2019, 15, 414-426.	0.8	11
82	Performance Analysis of Extreme Learning Machine Variants with Varying Intermediate Nodes and Different Activation Functions. Advances in Intelligent Systems and Computing, 2019, , 613-623.	0.6	2
83	Advancement in Transportation and Traffic Light Monitoring System. Advances in Intelligent Systems and Computing, 2019, , 409-420.	0.6	0
84	Research on Gamma Ray Detections using Fiber Optic Radiation Sensors. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 1-5.	0.3	0
85	Coefficient Random Permutation Based Compressed Sensing for Medical Image Compression. Lecture Notes in Electrical Engineering, 2018, , 529-536.	0.4	11
86	Epoch Extraction Using Hilbertâ€™Huang Transform for Identification of Closed Glottis Interval. Lecture Notes in Networks and Systems, 2018, , 139-149.	0.7	0
87	Hilbertâ€™Huang Transform and Its Variants in Engineering Data Analytics: State of the Art and Research Challenges. Lecture Notes in Networks and Systems, 2018, , 151-166.	0.7	2
88	A Hybrid Approach for Image Denoising in Ultrasound Carotid Artery Images. Lecture Notes in Networks and Systems, 2018, , 175-183.	0.7	1
89	Data-Dependent Subband Coder for Image Compression. Lecture Notes in Networks and Systems, 2018, , 185-192.	0.7	1
90	A Bioinspired Temperature Invariant Underwater Optical Wireless Communication System. , 2018, , .		0

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91	Perturbation Analysis of Decentralized Estimators. , 2018, , .		0
92	Integrated Weather Monitoring Device for Multi-Parameter Sensing Modelled on Insect Antennae. , 2018, , .		1
93	Iris Cryptography for Security Purpose. Journal of Physics: Conference Series, 2018, 1000, 012111.	0.4	0
94	SVM Pixel Classification on Colour Image Segmentation. Journal of Physics: Conference Series, 2018, 1000, 012110.	0.4	15
95	Time Triggered Hybrid Scheduler with Dynamic Frequency Scaling for Distributed Real Time Embedded Systems. Wireless Personal Communications, 2017, 97, 2511-2522.	2.7	0
96	Implementation of sub band coding and pitch extraction using cumulative impulse strength. , 2017, , .		0
97	Automated denoised ultrasound carotid artery image segmentation using curvelet threshold decomposition. , 2017, , .		2
98	A STUDY TO ASSESS THE LEVEL OF MENTAL HEALTH AMONG B.Sc NURSING FIRST YEAR STUDENTS IN SRM COLLEGE OF NURSING, KATTANKULATHUR.. Asian Journal of Pharmaceutical and Clinical Research, 2017, 10, 224.	0.3	1
99	Processes incorporated in the extraction of IMF, EMD and speech signal analysis using Hilbert huang transform. , 2017, , .		2
100	Mach-Zehnder Interferometer based high sensitive water salinity sensor for oceanographic applications. , 2016, , .		1
101	SoC based test bed design for OBC interfaces. , 2015, , .		0
102	Regulation of water in agriculture field using Internet Of Things. , 2015, , .		35
103	Multi-objective Generation Scheduling Using Modified Non-dominated Sorting Genetic Algorithm- II. Lecture Notes in Computer Science, 2015, , 456-470.	1.3	0
104	Optimal Feature Selection for Carotid Artery Image Segmentation Using Evolutionary Computation. Applied Mechanics and Materials, 2014, 626, 79-86.	0.2	3
105	Analysis of dq0 based fuzzy logic controller in DVR for voltage sag and harmonic mitigation. , 2014, , .		4
106	Early diagnosis of Parkinson's disease based on non-motor symptoms: a descriptive and factor analysis. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	4.9	15
107	Spectral Analysis of Atmospheric Radar Echoes Using a Non-Stationary Approach. Wireless Personal Communications, 0, , 1.	2.7	1
108	Highly Sensitive Nitrogen Dioxide Sensor Based on Enhancement of Surface Plasmon Resonance Response in Glass Waveguides by Ag Nanodots. Plasmonics, 0, , 1.	3.4	2

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109	An efficient adaptive compressive sensing technique for underwater image compression in IoUT. Wireless Networks, 0, , 1.	3.0	6
110	Soft Attention Based DenseNet Model for Parkinsonâ€™s Disease Classification Using SPECT Images. Frontiers in Aging Neuroscience, 0, 14, .	3.4	7