

VElamaran

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

688
citations

840585

11
h-index

677027

22
g-index

73
all docs

73
docs citations

73
times ranked

509
citing authors

#	ARTICLE	IF	CITATIONS
1	Gait and tremor investigation using machine learning techniques for the diagnosis of Parkinson disease. Future Generation Computer Systems, 2018, 83, 366-373.	4.9	183
2	Network Vulnerability Analysis on Brain Signal/Image Databases Using Nmap and Wireshark Tools. IEEE Access, 2018, 6, 57144-57151.	2.6	37
3	Automated diagnosis of epilepsy from EEG signals using ensemble learning approach. Pattern Recognition Letters, 2020, 139, 174-181.	2.6	35
4	Revisiting signal processing with spectrogram analysis on EEG, ECG and speech signals. Future Generation Computer Systems, 2019, 98, 227-232.	4.9	33
5	Fault-tolerant medical imaging system with quintuple modular redundancy (QMR) configurations. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	30
6	Spectral Fault Recovery Analysis Revisited With Normal and Abnormal Heart Sound Signals. IEEE Access, 2018, 6, 62874-62879.	2.6	25
7	Clinical Decision Support System for Alcoholism Detection Using the Analysis of EEG Signals. IEEE Access, 2018, 6, 61457-61461.	2.6	25
8	FPGA Implementation of Spatial Image Filters using Xilinx System Generator. Procedia Engineering, 2012, 38, 2244-2249.	1.2	20
9	Exploring DNS, HTTP, and ICMP Response Time Computations on Brain Signal/Image Databases using a Packet Sniffer Tool. IEEE Access, 2018, 6, 59672-59678.	2.6	20
10	Image processing algorithms for gesture recognition using MATLAB. , 2014, , .		17
11	Comparison of DCT and wavelets in image coding. , 2012, , .		14
12	Wavelet-based energy features for diagnosis of melanoma from dermoscopic images. International Journal of Biomedical Engineering and Technology, 2016, 20, 243.	0.2	12
13	Revisiting computer networking protocols by wireless sniffing on brain signal/image portals. Neural Computing and Applications, 2020, 32, 11097-11109.	3.2	12
14	FPGA Implementation of Audio Enhancement Using Adaptive LMS Filters. Journal of Artificial Intelligence, 2012, 5, 221-226.	0.7	11
15	A Handy Approach for Teaching and Learning Computer Networks using Wireshark. , 2020, , .		10
16	Analysis of Energy Concentration of the Speech, EEG, and ECG Signals in Healthcare Applicationsâ€”A Survey. Journal of Medical Imaging and Health Informatics, 2020, 10, 49-53.	0.2	10
17	An approach to design a matrix inversion hardware module using FPGA. , 2014, , .		9
18	Automated detection of cancerous genomic sequences using genomic signal processing and machine learning. Future Generation Computer Systems, 2019, 98, 233-237.	4.9	9

#	ARTICLE	IF	CITATIONS
19	Spectral and SNR improvement analysis of normal and abnormal heart sound signals using different windows. Future Generation Computer Systems, 2019, 92, 438-443.	4.9	9
20	CIC for decimation and interpolation using Xilinx system generator. , 2013, , .		8
21	VLSI design of low power SRAM architectures for FPGAs. , 2014, , .		8
22	Low power prescaler implementation in CMOS VLSI. , 2012, , .		7
23	A tutorial review on data compression with detection of fetal heart beat from noisy ECG. , 2014, , .		7
24	Area, delay and power comparison of fault-tolerant systems with TMR using different voter circuits. International Journal of Signal and Imaging Systems Engineering, 2017, 10, 63.	0.6	7
25	Low Energy, Low Power Adder Logic Cells: A CMOS VLSI Implementation. Asian Journal of Scientific Research, 2014, 7, 248-255.	0.3	7
26	CMOS VLSI Design of Low Power SRAM Cell Architectures with New TMR: A Layout Approach. Asian Journal of Scientific Research, 2015, 8, 466-477.	0.3	7
27	Low Power Digital Barrel Shifter Datapath Circuits Using Microwind Layout Editor with High Reliability. Asian Journal of Scientific Research, 2015, 8, 478-489.	0.3	7
28	Fault-tolerant digital filters on FPGA using hardware redundancy techniques. , 2017, , .		6
29	The Importance of Dithering Technique Revisited With Biomedical Imagesâ€™ A Survey. IEEE Access, 2019, 7, 3627-3634.	2.6	6
30	Spatial and spectral digital watermarking with robustness evaluation. , 2014, , .		5
31	Baseline Wandering Noise Removal Using High-Speed IIR Filters with an FPGA Implementation. Communications in Computer and Information Science, 2021, , 55-65.	0.4	5
32	Revisiting FPGA Implementation of Digital Filters and Exploring Approximate Computing on Biomedical Signals. Journal of Medical Imaging and Health Informatics, 2020, 10, 2000-2004.	0.2	5
33	A Case Study of Impulse Noise Reduction Using Morphological Image Processing with Structuring Elements. Asian Journal of Scientific Research, 2015, 8, 291-303.	0.3	5
34	Advanced Digital Signal Processing Techniques on the Classification of the Heart Sound Signals. Journal of Medical Imaging and Health Informatics, 2020, 10, 2010-2015.	0.2	5
35	Reconfigurable Architectures with High-Frequency Noise Suppression for Wearable ECG Devices. Journal of Healthcare Engineering, 2021, 2021, 1-12.	1.1	5
36	A decision based switching median filter for restoration of images corrupted by high density impulse noise. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
37	Fault Tolerant Carry Save Adders - A NMR Configuration Approach. , 2018, , .		4
38	FPGA Implementation of DC Bias Removal Filters – A Case Study with an ECG Signal. , 2021, , .		4
39	Comparison of Wavelet Filters in Hybrid Domain Watermarking. Research Journal of Information Technology, 2013, 5, 393-401.	0.4	4
40	FPGA Implementation of Audio Enhancement using Xilinx System Generator. Journal of Applied Sciences, 2014, 14, 1972-1977.	0.1	4
41	A tutorial review on discrete fourier transform with data compression application. , 2014, , .		3
42	A Novel Approach for Contrast Enhancement using Image Classification and Subdivision based Histogram Equalization. Indian Journal of Science and Technology, 2015, 8, 1-9.	0.5	3
43	High-Frequency Noise Removal on Corrupted ECG Signal Using Exponential Averagers. Communications in Computer and Information Science, 2021, , 43-54.	0.4	3
44	CMOS VLSI Design of Low Power Comparator Logic Circuits. Asian Journal of Scientific Research, 2014, 7, 238-247.	0.3	3
45	Salt and pepper noise reduction with a novel approach of noise models using median filter. , 2014, , .		2
46	Minimal Test Coverage of SSFs for the Majority Voters of TMR Configuration. , 2018, , .		2
47	Useful Tips and Tricks on Digital Data Processing with Discrete Fourier Transform. , 2018, , .		2
48	Revisiting the Utility of Transmission Gate and Passtransistor Logic Styles in CMOS VLSI Design. , 2021, , .		2
49	A Pedagogical Approach on Computer Networking in Practice Using a Smartphone. Advances in Intelligent Systems and Computing, 2021, , 101-113.	0.5	2
50	Spectrum Sensing based on Energy Detection using MATLAB_Simulink. Indian Journal of Science and Technology, 2015, 8, 1-5.	0.5	2
51	Horse Communication against Harsh Attack: A Stego Ride. Research Journal of Information Technology, 2013, 5, 263-276.	0.4	2
52	Brain Tumour Segmentation and Measurement Based on Threshold and Support Vector Machine Classifier. Research Journal of Pharmacy and Technology, 2020, 13, 2573.	0.2	2
53	Lossy Data Compression using K-Means Clustering on Retinal Images using RStudio. , 2021, , .		2
54	Low power look-up table topologies for FPGAs. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
55	VLSI Design Course through Online Educational Tools during the COVID-19 Pandemic. , 2021, , .		1
56	A Novel Low Power Adder-Subtractor using Efficient XOR Gates. Journal of Applied Sciences, 2014, 14, 1623-1627.	0.1	1
57	Low Power CMOS Look-Up Tables using PROM. Indian Journal of Science and Technology, 2015, 8, .	0.5	1
58	3G Intra circle roaming implementation techniques. , 2014, , .		0
59	Resolution enhancement using DWT and SWT by Fusion techniques with watermarking. , 2014, , .		0
60	A comparative study on low power adders using microwind EDA tool. , 2014, , .		0
61	Development of LabVIEW based data acquisition unit for Compact photometer for terrestrial and planetary emissions. , 2015, , .		0
62	A Novel Encryption Method with Super Resolution Imaging Using DWT. Advances in Intelligent Systems and Computing, 2016, , 839-849.	0.5	0
63	NMR configurations with novel majority voter circuits to mask multiple module faults. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	0
64	Biomedical Signal Processing using Matlab and Open Source R Software – A Comparative Study on Running Times. , 2021, , .		0
65	The Utility of Simulink Subsystems in Handling and Processing of Biomedical Signals and Images. Journal of Medical Imaging and Health Informatics, 2022, 12, 100-105.	0.2	0