

Ahmad Ayatollahi

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

549
citations

933264

10
h-index

794469

19
g-index

67
all docs

67
docs citations

67
times ranked

636
citing authors

#	ARTICLE	IF	CITATIONS
1	An efficient neural network based method for medical image segmentation. Computers in Biology and Medicine, 2014, 44, 76-87.	3.9	58
2	FIR Digital Filters Design: Particle Swarm Optimization Utilizing LMS and Minimax Strategies. , 2008, , .		55
3	Towards automatic detection of atrial fibrillation: A hybrid computational approach. Computers in Biology and Medicine, 2010, 40, 919-930.	3.9	47
4	STDP implementation using memristive nanodevice in CMOS-Nano neuromorphic networks. IEICE Electronics Express, 2009, 6, 148-153.	0.3	46
5	A modified Zeeman model for producing HRV signals and its application to ECG signal generation. Journal of Theoretical Biology, 2007, 244, 180-189.	0.8	45
6	Accurate Classification of EEG Signals Using Neural Networks Trained by Hybrid Population-physic-based Algorithm. International Journal of Automation and Computing, 2020, 17, 108-122.	4.5	28
7	EEG analysis based on wavelet-spectral entropy for epileptic seizures detection. , 2010, , .		26
8	A comparison between Genetic Algorithm and PSO for linear phase FIR digital filter design. , 2008, , .		19
9	Automatic Counting of Leukocytes in Giemsa-Stained Images of Peripheral Blood Smear. , 2009, , .		16
10	A new nonparametric statistical approach to detect lumen and Media-Adventitia borders in intravascular ultrasound frames. Computers in Biology and Medicine, 2019, 104, 10-28.	3.9	16
11	AUTOMATIC LUNG NODULE DETECTION BASED ON STATISTICAL REGION MERGING AND SUPPORT VECTOR MACHINES. Image Analysis and Stereology, 2017, 36, 65.	0.4	16
12	A Zero-Pole Reposition Based, 0.95-mW, 68-dB, Linear-in-dB, Constant-Bandwidth Variable Gain Amplifier. Circuits, Systems, and Signal Processing, 2014, 33, 1353-1368.	1.2	13
13	CMOL implementation of spiking neurons and spike-timing dependent plasticity. International Journal of Circuit Theory and Applications, 2011, 39, 357-372.	1.3	11
14	Efficient Hybrid CMOS-Nano Circuit Design for Spiking Neurons and Memristive Synapses with STDP. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 1670-1677.	0.2	10
15	Image-Based Gating of Intravascular Ultrasound Sequences Using the Phase Information of Dual-Tree Complex Wavelet Transform Coefficients. IEEE Transactions on Medical Imaging, 2019, 38, 2785-2795.	5.4	10
16	Investigation of eye movement pattern parameters of individuals with different fluid intelligence. Experimental Brain Research, 2019, 237, 15-28.	0.7	10
17	A novel method of applying directional filter bank (DFB) for Finger-Knuckle-Print (FKP) recognition. , 2014, , .		9
18	Medical ultrasound image segmentation by modified local histogram range image method. Journal of Biomedical Science and Engineering, 2010, 03, 1078-1084.	0.2	8

#	ARTICLE	IF	CITATIONS
19	Spectral Entropy for Epileptic Seizures Detection. , 2010, , .		7
20	Multi-expert human action recognition with hierarchical super-class learning. Knowledge-Based Systems, 2022, 250, 109091.	4.0	7
21	Noise power spectrum estimation using constrained variance spectral smoothing and minima tracking. Speech Communication, 2009, 51, 1098-1113.	1.6	6
22	A new CMOS all-pass phase shifter for phased array systems. IEICE Electronics Express, 2009, 6, 504-510.	0.3	6
23	A new high capacity and EMD-based image steganography scheme in spatial domain. , 2013, , .		6
24	A transformation model based on dual-tree complex wavelet transform for non-rigid registration of 3D MRI images. International Journal of Wavelets, Multiresolution and Information Processing, 2019, 17, 1950025.	0.9	5
25	Classification of sleep apnea using EMD-based features and PSO-trained neural networks. Biomedizinische Technik, 2021, 66, 459-472.	0.9	5
26	Action recognition in still images using a multi-attention guided network with weakly supervised saliency detection. Multimedia Tools and Applications, 2021, 80, 32567-32593.	2.6	5
27	A comparator-based switched-capacitor integrator using a new charge control circuit. , 2008, , .		4
28	Maximum Likelihood Active Contours Specialized for Mammography Segmentation. , 2009, , .		4
29	A novel Iris segmentation method based on balloon active contour. , 2010, , .		4
30	Robust genetic programming-based detection of atrial fibrillation using RR intervals. Expert Systems, 2012, 29, 183-199.	2.9	4
31	A novel $\pm 0.5\text{V}$, high current drive, and rail to rail current operational amplifier. Analog Integrated Circuits and Signal Processing, 2012, 70, 103-112.	0.9	4
32	Vessel wall detection in the images of intravascular Optical coherence tomography based on the graph cut segmentation. , 2017, , .		4
33	0.8W 1.4MHz multi-decade frequency range true RMS to DC converter based on two-quadrant current squarer circuit. IET Science, Measurement and Technology, 2020, 14, 17-25.	0.9	4
34	Modifying the Cosine Model for Nonstationary Blood Flow Signal Simulation. Journal of Ultrasound in Medicine, 2003, 22, 281-285.	0.8	3
35	An objective measure for the musical noise assessment in noise reduction systems. , 2009, , .		3
36	Lumen boundary detection using neutrosophic c-means in IVOCT images. , 2019, , .		3

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37	On conditional spectral moments of Gaussian and damped sinusoidal atoms in adaptive signal decomposition. <i>Signal Processing</i> , 2005, 85, 1984-1992.	2.1	2
38	A low voltage CMOS analog multiplier with high linearity. , 2009, , .		2
39	Segmentation of medical ultrasound image based on local histogram range image. , 2010, , .		2
40	A novel iris recognition system based on active contour. , 2010, , .		2
41	A low voltage low power CMOS analog multiplier. , 2011, , .		2
42	Ultrasound image segmentation by using a FIR neural network. , 2013, , .		2
43	A high CMRR, class AB, fully differential current output stage. <i>Analog Integrated Circuits and Signal Processing</i> , 2014, 78, 465-477.	0.9	2
44	Comparison of Using Different Types of Wavelet or FFT for De-noising of Body Surface Potential Signals. , 2008, , .		1
45	Modified CAEN-BIST algorithm for better utilization of nanofabrics. , 2008, , .		1
46	Automatic Obtaining of Left Ventricular Area and Analyzing the Area Changes. , 2009, , .		1
47	Investigating the linearity of MOSFET-only switched-capacitor ΔΣ modulators under low-voltage condition. , 2009, , .		1
48	A Low Power and Wide Dynamic Range Digital Pixel Sensor (DPS) for Optical Brain Imaging Systems. <i>Sensing and Imaging</i> , 2022, 23, 1.	1.0	1
49	A survey on linear relations between main electrical components during action potential in ventricular cell. <i>Applied Mathematics and Computation</i> , 2007, 188, 148-153.	1.4	0
50	Effect of switch resistance on comparator-based switched-capacitor circuits. , 2008, , .		0
51	A novel CMOS all-pass tunable phase shifter for phased array systems. , 2009, , .		0
52	Estimation of Changes in Left Ventricular Wall Thickness in Full Short Axis CMRI to Diagnosis Myocardium Infarctions. , 2009, , .		0
53	A novel CMOS all-pass tunable phase shifter. , 2009, , .		0
54	Genetic algorithm as the main optimizer for medical image registration. , 2010, , .		0

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55	New Approach in Transform-Based Speaker Adaptation Using Minimum Classification Error. , 2010, , .		0
56	Evolutionary eigenvoice MLLR speaker adaptation. Procedia Computer Science, 2011, 3, 992-997.	1.2	0
57	Heuristic search for maximum of mutual information. , 2011, , .		0
58	Design a 10-Bit 100MHz pipelined ADC using RB-OTA in 90nm CMOS technology. IEICE Electronics Express, 2012, 9, 815-821.	0.3	0
59	High resolution tagging pattern in the polar coordinate system; A reconstruction based approach. , 2013, , .		0
60	Coronary artery curvature extraction using physic-based model in intravascular ultrasound image sequence. , 2016, , .		0
61	A new method for non-rigid registration of MRI images. , 2017, , .		0
62	Novel Coronary Tortuosity Extraction Using Intravascular Ultrasound Sequence Alone. , 2017, , .		0
63	Automatic vessel wall segmentation of IVOCT images using region detection EREL algorithm. , 2019, , .		0
64	Automatic Pulmonary Nodule Growth Measurement through CT Image Analysis based on Morphology Filtering and Statistical Region Merging. Biomedical and Pharmacology Journal, 2018, 11, 1247-1259.	0.2	0