

# 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	A Low Power and Wide Dynamic Range Digital Pixel Sensor (DPS) for Optical Brain Imaging Systems. Sensing and Imaging, 2022, 23, 1.	1.0	1
2	Multi-expert human action recognition with hierarchical super-class learning. Knowledge-Based Systems, 2022, 250, 109091.	4.0	7
3	Classification of sleep apnea using EMD-based features and PSO-trained neural networks. Biomedizinische Technik, 2021, 66, 459-472.	0.9	5
4	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
5	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
6	0.8â€W 1.4â€nW multiâ€decade frequency range true RMS to DC converter based on twoâ€quadrant current squarer circuit. IET Science, Measurement and Technology, 2020, 14, 17-25.	0.9	4
7	Lumen boundary detection using neutrosophic c-means in IVOCT images. , 2019, , .		3
8	Automatic vessel wall segmentation of IVOCT images using region detection EREL algorithm. , 2019, , .		0
9	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
10	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
11	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
12	Investigation of eye movement pattern parameters of individuals with different fluid intelligence. Experimental Brain Research, 2019, 237, 15-28.	0.7	10
13	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
14	A new method for non-rigid registration of MRI images. , 2017, , .		0
15	Vessel wall detection in the images of intravascular Optical coherence tomography based on the graph cut segmentation. , 2017, , .		4
16	Novel Coronary Tortuosity Extraction Using Intravascular Ultrasound Sequence Alone. , 2017, , .		0
17	AUTOMATIC LUNG NODULE DETECTION BASED ON STATISTICAL REGION MERGING AND SUPPORT VECTOR MACHINES. Image Analysis and Stereology, 2017, 36, 65.	0.4	16
18	Coronary artery curvature extraction using physic-based model in intravascular ultrasound image sequence. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	A novel method of applying directional filter bank (DFB) for Finger-Knuckle-Print (FKP) recognition. , 2014, , .		9
20	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
21	An efficient neural network based method for medical image segmentation. Computers in Biology and Medicine, 2014, 44, 76-87.	3.9	58
22	A high CMRR, class AB, fully differential current output stage. Analog Integrated Circuits and Signal Processing, 2014, 78, 465-477.	0.9	2
23	High resolution tagging pattern in the polar coordinate system; A reconstruction based approach. , 2013, , .		0
24	A new high capacity and EMD-based image steganography scheme in spatial domain. , 2013, , .		6
25	Ultrasound image segmentation by using a FIR neural network. , 2013, , .		2
26	Robust genetic programmingâ€based detection of atrial fibrillation using RR intervals. Expert Systems, 2012, 29, 183-199.	2.9	4
27	Design a 10-Bit 100MHz pipelined ADC using RB-OTA in 90nm CMOS technology. IEICE Electronics Express, 2012, 9, 815-821.	0.3	0
28	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
29	A low voltage low power CMOS analog multiplier. , 2011, , .		2
30	CMOL implementation of spiking neurons and spikeâ€timing dependent plasticity. International Journal of Circuit Theory and Applications, 2011, 39, 357-372.	1.3	11
31	Evolutionary eigenvoice MLLR speaker adaptation. Procedia Computer Science, 2011, 3, 992-997.	1.2	0
32	Heuristic search for maximum of mutual information. , 2011, , .		0
33	Towards automatic detection of atrial fibrillation: A hybrid computational approach. Computers in Biology and Medicine, 2010, 40, 919-930.	3.9	47
34	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
35	Segmentation of medical ultrasound image based on local histogram range image. , 2010, , .		2
36	EEG analysis based on wavelet-spectral entropy for epileptic seizures detection. , 2010, , .		26

#	ARTICLE	IF	CITATIONS
37	Genetic algorithm as the main optimizer for medical image registration. , 2010, , .		0
38	Spectral Entropy for Epileptic Seizures Detection. , 2010, , .		7
39	A novel iris recognition system based on active contour. , 2010, , .		2
40	A novel Iris segmentation method based on balloon active contour. , 2010, , .		4
41	New Approach in Transform-Based Speaker Adaptation Using Minimum Classification Error. , 2010, , .		0
42	Medical ultrasound image segmentation by modified local histogram range image method. Journal of Biomedical Science and Engineering, 2010, 03, 1078-1084.	0.2	8
43	An objective measure for the musical noise assessment in noise reduction systems. , 2009, , .		3
44	A novel CMOS all-pass tunable phase shifter for phased array systems. , 2009, , .		0
45	Maximum Likelihood Active Contours Specialized for Mammography Segmentation. , 2009, , .		4
46	Noise power spectrum estimation using constrained variance spectral smoothing and minima tracking. Speech Communication, 2009, 51, 1098-1113.	1.6	6
47	A low voltage CMOS analog multiplier with high linearity. , 2009, , .		2
48	Estimation of Changes in Left Ventricular Wall Thickness in Full Short Axis CMRI to Diagnosis Myocardium Infarctions. , 2009, , .		0
49	Automatic Obtaining of Left Ventricular Area and Analyzing the Area Changes. , 2009, , .		1
50	Investigating the linearity of MOSFET-only switched-capacitor &#x0394;&#x03A3; modulators under low-voltage condition. , 2009, , .		1
51	A novel CMOS all-pass tunable phase shifter. , 2009, , .		0
52	Automatic Counting of Leukocytes in Giemsa-Stained Images of Peripheral Blood Smear. , 2009, , .		16
53	STDP implementation using memristive nanodevice in CMOS-Nano neuromorphic networks. IEICE Electronics Express, 2009, 6, 148-153.	0.3	46
54	A new CMOS all-pass phase shifter for phased array systems. IEICE Electronics Express, 2009, 6, 504-510.	0.3	6

#	ARTICLE	IF	CITATIONS
55	A comparator-based switched-capacitor integrator using a new charge control circuit. , 2008, , .		4
56	A comparison between Genetic Algorithm and PSO for linear phase FIR digital filter design. , 2008, , .		19
57	Comparison of Using Different Types of Wavelet or FFT for De-noising of Body Surface Potential Signals. , 2008, , .		1
58	Effect of switch resistance on comparator-based switched-capacitor circuits. , 2008, , .		0
59	FIR Digital Filters Design: Particle Swarm Optimization Utilizing LMS and Minimax Strategies. , 2008, , .		55
60	Modified CAEN-BIST algorithm for better utilization of nanofabrics. , 2008, , .		1
61	A survey on linear relations between main electrical components during action potential in ventricular cell. Applied Mathematics and Computation, 2007, 188, 148-153.	1.4	0
62	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
63	On conditional spectral moments of Gaussian and damped sinusoidal atoms in adaptive signal decomposition. Signal Processing, 2005, 85, 1984-1992.	2.1	2
64	Modifying the Cosine Model for Nonstationary Blood Flow Signal Simulation. Journal of Ultrasound in Medicine, 2003, 22, 281-285.	0.8	3