Mahesh Raveendranatha Panicker

List of Publications by Year
in descending order

38 papers	641 citations	1039880 9 h-index	1199470 12 g-index
38 all docs	38 docs citations	38 times ranked	216 citing authors

#	Article	IF	Citations
1	Subject independent emotion recognition using EEG signals employing attention driven neural networks. Biomedical Signal Processing and Control, 2022, 75, 103547.	3.5	37
2	A nonlinear beamforming for enhanced spatiotemporal sensitivity in high frame rate ultrasound flow imaging. Computers in Biology and Medicine, 2022, 147, 105686.	3.9	1
3	Towards Diffuse Beamforming For Specular Reflectors: A Pixel-Level Reflection Tuned Apodization Scheme For Ultrasound Imaging. , 2021, , .		3
4	Employing Acoustic Features To Aid Neural Networks Towards Platform Agnostic Learning In Lung Ultrasound Imaging. , 2021, , .		0
5	Intensity Vector Field: A Tool for Visualization and Characterisation of Tissue Reflections in High Frame Rate Ultrasound Imaging. , 2021, , .		1
6	vid-SAMGRAH: A PyTorch framework for multi-latent space reinforcement learning driven video summarization in ultrasound imaging. Software Impacts, 2021, 10, 100185.	0.8	5
7	Towards Fast Region Adaptive Ultrasound Beamformer for Plane Wave Imaging Using Convolutional Neural Networks. , 2021, 2021, 2910-2913.		2
8	Introducing Attention Mechanism for EEG Signals: Emotion Recognition with Vision Transformers. , 2021, 2021, 5723-5726.		14
9	An Angle Independent Depth Aware Fusion Beamforming Approach for Ultrafast Ultrasound Flow Imaging[*]. , 2021, 2021, 3399-3402.		0
10	Pixel Intensity Vector Field: An Inside Out Approach of Looking at Ultrasound Reflections from the Lung at High Frame Rates. , 2021, 2021, 2708-2711.		1
11	VLSI architectures for Delay Multiply and Sum Beamforming in Ultrasound Medical Imaging. , 2020, , .		1
12	Directional Beam Focusing Based Dual Apodization Approach for Improved Vector Flow Imaging. , 2020, , .		2
13	Towards A Pixel-Level Reconfigurable Digital Beamforming Core for Ultrasound Imaging. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 570-582.	2.7	9
14	Triangulation based vector flow imaging with non-steered plane waves for transverse flows. , 2020, , .		0
15	Delay Multiply and Sum based Selective Compounding for Enhanced Ultrasound Imaging. , 2020, , .		0
16	Towards Bone Aware Image Enhancement in Musculoskeletal Ultrasound Imaging. , 2020, , .		0
17	Low complexity flexible filter banks for uniform and non-uniform channelisation in software radios using coefficient decimation. IET Circuits, Devices and Systems, 2011, 5, 232.	0.9	39
18	Reconfigurable Low Area Complexity Filter Bank Architecture Based on Frequency Response Masking for Nonuniform Channelization in Software Radio Receivers. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 1241-1255.	2.6	35

#	Article	IF	Citations
19	A Low-Complexity Flexible Spectrum-Sensing Scheme for Mobile Cognitive Radio Terminals. IEEE Transactions on Circuits and Systems II: Express Briefs, 2011, 58, 371-375.	2.2	22
20	Filter Bank Channelizers for Multi-Standard Software Defined Radio Receivers. Journal of Signal Processing Systems, 2011, 62, 157-171.	1.4	52
21	An Area-efficient Non-uniform Filter Bank for Low Overhead Reconfiguration of Multi-standard Software Radio Channelizers. Journal of Signal Processing Systems, 2011, 64, 413-428.	1.4	3
22	Reconfigurable area and power efficient I-Q mapper for adaptive modulation. , 2011, , .		2
23	Reconfigurable discrete Fourier transform filter banks for multi-standard channelizers. , 2010, , .		3
24	A reconfigurable filter bank for uniform and non-uniform channelization in multi-standard wireless communication receivers. , 2010, , .		13
25	Reconfigurable discrete fourier transform filter banks for variable resolution spectrum sensing. , 2010, , .		4
26	New Reconfigurable Architectures for Implementing FIR Filters With Low Complexity. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2010, 29, 275-288.	1.9	126
27	A tree-structured non-uniform filter bank for multi-standard wireless receivers. , 2009, , .		3
28	Coefficient decimation approach for realizing reconfigurable finite impulse response filters. , 2008, , .		66
29	A reconfigurable multi-stage frequency response masking filter bank architecture for software defined radio receivers. , 2008, , .		12
30	A New Common Subexpression Elimination Algorithm for Realizing Low-Complexity Higher Order Digital Filters. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2008, 27, 217-229.	1.9	93
31	Reconfigurable Frequency Response Masking Filters for Software Radio Channelization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 274-278.	2.2	54
32	A Low Complexity Reconfigurable Filter Bank Architecture for Spectrum Sensing in Cognitive Radios. , 2008, , .		15
33	Realization of Low Power High-Speed Channel Filters with Stringent Adjacent Channel Attenuation Specifications for Wireless Communication Receivers. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2008, E91-A, 2564-2570.	0.2	1
34	Realization of low power high-speed channel filters with stringent adjacent channel attenuation specifications for software radio receivers. , 2007, , .		0
35	A new low complexity reconfigurable filter bank architecture for software radio receivers based on interpolation and masking technique. , 2007, , .		2
36	Adaptable Area-Efficient Parallel Architecture for Grey and Color Image Convolvers. , 2007, , .		0

#	Article	IF	Citations
37	Reconfigurable Low Complexity Fir Filters for Software Radio Receivers. , 2006, , .		16
38	Design of an Area-Efficient Multiplierless Processing Element For Fast Two Dimensional Image Convolution. , 2006, , .		4