Ghasem Azemi

List of Publications by Year
in descending order

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40 papers	750 citations	759055 12 h-index	839398 18 g-index
40 all docs	40 docs citations	40 times ranked	723 citing authors

#	Article	IF	Citations
1	Time-Frequency Processing of Nonstationary Signals: Advanced TFD Design to Aid Diagnosis with Highlights from Medical Applications. IEEE Signal Processing Magazine, 2013, 30, 108-119.	4.6	96
2	Principles of timeâ€“frequency feature extraction for change detection in non-stationary signals: Applications to newborn EEG abnormality detection. Pattern Recognition, 2015, 48, 616-627.	5.1	90
3	EEG background features that predict outcome in term neonates with hypoxic ischaemic encephalopathy: A structured review. Clinical Neurophysiology, 2016, 127, 285-296.	0.7	74
4	Measuring Time-Varying Information Flow in Scalp EEG Signals: Orthogonalized Partial Directed Coherence. IEEE Transactions on Biomedical Engineering, 2014, 61, 680-693.	2.5	70
5	A methodology for time-frequency image processing applied to the classification of non-stationary multichannel signals using instantaneous frequency descriptors with application to newborn EEG signals. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	48
6	A review of timeâ€“frequency matched filter design with application to seizure detection in multichannel newborn EEG. , 2014, 28, 28-38.		38
7	Mobile Unit Velocity Estimation Based on the Instantaneous Frequency of the Received Signal. IEEE Transactions on Vehicular Technology, 2004, 53, 716-724.	3.9	37
8	Ricean<tex>K</tex>-Factor Estimation in Mobile Communication Systems. IEEE Communications Letters, 2004, 8, 617-619.	2.5	36
9	A timeâ€“frequency based approach for generalized phase synchrony assessment in nonstationary multivariate signals. , 2013, 23, 780-790.		24
10	Robust estimation of highly-varying nonlinear instantaneous frequency of monocomponent signals using a lower-order complex-time distribution. Signal Processing, 2013, 93, 3251-3260.	2.1	19
11	Improved characterization of HRV signals based on instantaneous frequency features estimated from quadratic timeâ€“frequency distributions with data-adapted kernels. Biomedical Signal Processing and Control, 2014, 10, 153-165.	3.5	18
12	A novel multivariate phase synchrony measure: Application to multichannel newborn EEG analysis. , 2019, 84, 59-68.		17
13	Time-frequency signal and image processing of non-stationary signals with application to the classification of newborn EEG abnormalities. , 2011, , .		16
14	Detection of epileptic seizures from compressively sensed EEG signals for wireless body area networks. Expert Systems With Applications, 2021, 172, 114630.	4.4	16
15	Effective connectivity in brain networks estimated using EEG signals is altered in children with ADHD. Computers in Biology and Medicine, 2021, 134, 104515.	3.9	16
16	Automated detection of perinatal hypoxia using timeâ€“frequency-based heart rate variability features. Medical and Biological Engineering and Computing, 2014, 52, 183-191.	1.6	13
17	EEG-based automatic epilepsy diagnosis using the instantaneous frequency with sub-band energies. , 2011, , .		11
18	Improving the classification of newborn EEG time-frequency representations using a combined time-frequency signal and image approach. , 2012, , .		11

#	Article	IF	Citations
19	Kâ€factor estimation in shadowed Ricean mobile communication channels. Wireless Communications and Mobile Computing, 2009, 9, 1379-1386.	0.8	10
20	Non-invasivemonitoring of fetal movements using time-frequency features of accelerometry. , 2014, , .		10
21	An EEG-based methodology for the estimation of functional brain connectivity networks: Application to the analysis of newborn EEG seizure. Biomedical Signal Processing and Control, 2021, 63, 102229.	3.5	10
22	Orthogonalized Partial Directed Coherence for Functional Connectivity Analysis of Newborn EEG. Lecture Notes in Computer Science, 2012, , 683-691.	1.0	9
23	Generalised phase synchrony within multivariate signals: An emerging concept in time-frequency analysis. , 2012, , .		8
24	Surrogate data test for nonlinearity of EEG signals: A newborn EEG burst suppression case study. , 2017, 70, 30-38.		8
25	Classification of normal/abnormal PCG recordings using a timeâ€“frequency approach. Analog Integrated Circuits and Signal Processing, 2021, 109, 459-465.	0.9	7
26	Classification of fetal movement accelerometry through time-frequency features. , 2014, , .		6
27	Fetal ECG Extraction from Sparse Representation of Multichannel Abdominal Recordings. Circuits, Systems, and Signal Processing, 2022, 41, 2027-2044.	1.2	6
28	Moment-based Ricean K-factor estimation in the presence of shadowing. , 2007, , .		4
29	Doppler Spread Estimation in Mobile Communication Systems Using the Ambiguity Function of the Received Signals. , 2009, , .		4
30	Doppler spread estimation in microcellular systems using reduced interference time-frequency distribution of the received signals. , 2010, , .		3
31	Performance evaluation of multi-component instantaneous frequency estimation techniques for heart rate variability analysis. , 2012, , .		3
32	Classifying Single-Trial EEG During Motor Imagery Using a Multivariate Mutual Information Based Phase Synchrony Measure. , 2017, , .		3
33	A modified row-sparse multiple measurement vector recovery algorithm for reconstructing multichannel EEG signals from compressive measurements. Biomedical Signal Processing and Control, 2020, 60, 101956.	3.5	3
34	EEG amplitude and correlation spatial decay analysis for neonatal head modelling. , 2012, , .		2
35	Detection of perinatal hypoxia using time-frequency analysis of heart rate variability signals. , 2013, , .		2
36	Generalized Mean Phase Coherence for asynchrony abnormality detection in multichannel newborn EEG. , 2012, , .		1

#	Article	IF	Citations
37	Detection of neonatal EEG burst-suppression using a time-frequency approach. , 2014, , .		1
38	IF-Based Velocity Estimation of the Mobile Units in Micro-Cellular Systems with Non-Isotropic Scattering Distribution. , 2009, , .		0
39	Estimating the scattering distribution of the received signals in multipath fading channels. Telecommunication Systems, 2014, 57, 337-345.	1.6	0
40	A new NLEO based technique for the detection of burstâ€“suppression patterns in multichannel neonatal EEG signals. Analog Integrated Circuits and Signal Processing, 2017, 92, 255-262.	0.9	0