Sung-Nien Yu

List of Publications by Year
in descending order

33 papers	768 citations	840776 11 h-index	713466 21 g-index
33 all docs	33 docs citations	33 times ranked	857 citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocardiogram beat classification based on wavelet transformation and probabilistic neural network. Pattern Recognition Letters, 2007, 28, 1142-1150.	4.2	218
2	Bispectral analysis and genetic algorithm for congestive heart failure recognition based on heart rate variability. Computers in Biology and Medicine, 2012, 42, 816-825.	7.0	74
3	Detection of seizures in EEG using subband nonlinear parameters and genetic algorithm. Computers in Biology and Medicine, 2010, 40, 823-830.	7.0	69
4	Detection of microcalcifications in digital mammograms using wavelet filter and Markov random field model. Computerized Medical Imaging and Graphics, 2006, 30, 163-173.	5.8	68
5	Fiber optic nanogold-linked immunosorbent assay for rapid detection of procalcitonin at femtomolar concentration level. Biosensors and Bioelectronics, 2020, 151, 111871.	10.1	58
6	Noise-tolerant electrocardiogram beat classification based on higher order statistics of subband components. Artificial Intelligence in Medicine, 2009, 46, 165-178.	6.5	51
7	Detection of microcalcifications in digital mammograms using combined model-based and statistical textural features. Expert Systems With Applications, 2010, 37, 5461-5469.	7.6	39
8	Conditional mutual information-based feature selection for congestive heart failure recognition using heart rate variability. Computer Methods and Programs in Biomedicine, 2012, 108, 299-309.	4.7	36
9	Biomechanical properties and a kinetic simulation model of the smooth muscle I2 in the buccal mass of Aplysia. Biological Cybernetics, 1999, 81, 505-513.	1.3	28
10	Selection of effective features for ECG beat recognition based on nonlinear correlations. Artificial Intelligence in Medicine, 2012, 54, 43-52.	6.5	28
11	A Wireless Physiological Signal Monitoring System with Integrated Bluetooth and WiFi Technologies. , 2005, 2005, 2203-6.		17
12	Wavelet-Based Multiscale Sample Entropy and Chaotic Features for Congestive Heart Failure Recognition Using Heart Rate Variability. Journal of Medical and Biological Engineering, 2015, 35, 338-347.	1.8	13
13	Subband Features Based on Higher Order Statistics for ECG Beat Classification. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1859-62.	0.5	10
14	A three-object model for the similarity searches of chest CT images. Computerized Medical Imaging and Graphics, 2005, 29, 617-630.	5.8	9
15	Quantitatively Characterizing the Textural Features of Sonographic Images for Breast Cancer With Histopathologic Correlation. Journal of Ultrasound in Medicine, 2005, 24, 651-661.	1.7	8
16	Tailoring Noise Frequency Spectrum between Two Consecutive Second Derivative Filtering Procedures to Improve Liquid Chromatographyâ'Mass Spectrometry Determinations. Analytical Chemistry, 2008, 80, 2097-2104.	6.5	6
17	Recognition of Microcalcifications in Digital Mammograms Based on Markov Random Field and Deterministic Fractal Modeling. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3922-5.	0.5	5
18	Quantitative correlation between sonographic textural feature and histopathological components for breast cancer: preliminary results. Clinical Imaging, 2008, 32, 93-102.	1.5	5

#	Article	IF	Citations
19	Categorizing Heartbeats by Independent Component Analysis and Support Vector Machines. , 2008, , .		5
20	Improving liquid chromatography–tandem mass spectrometry determinations by modifying noise frequency spectrum between two consecutive wavelet-based low-pass filtering procedures. Journal of Chromatography A, 2010, 1217, 2804-2811.	3.7	5
21	Asymptotics of the partition function of a general Markov random field on an infinite rectangular lattice. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 736-746.	2.6	4
22	Transfer-matrix renormalization group method for general Markov random fields. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 801-810.	2.6	4
23	An efficient paradigm for wavelet–based image processing using cellular neural networks. International Journal of Circuit Theory and Applications, 2010, 38, 527-542.	2.0	3
24	Embedding of Multiple Functions into a Single Cellular Neural Nwtwork: An Image Filtering Prospective. , 0, , .		2
25	A new Maxnet. , 0, , .		1
26	ECG beat classification based on signal decomposition: a comparative study. , 2009, , .		1
27	Mobile Learning System with Context-Aware Interactions and Point-of-Interest Understanding. , 2018, , .		1
28	Efficient Searching for Robust CNN Templates with Combined Analytic and Evolutionary Methods. , 0, , .		0
29	Emulation of salamander retina with multilayer neural network. , 2009, , .		0
30	A Configurable Digital Cellular Neural Network withÂTemplate Decomposition. Circuits, Systems, and Signal Processing, 2011, 30, 463-482.	2.0	0
31	Subband higher-order statistics and cross-correlation for heartbeat type recognition based on two-lead electrocardiogram. , 2014, 2014, 42-5.		0
32	Combining Independent Component Analysis and Backpropagation Neural Network for ECG Beat Classification. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
33	Comparison of DifferentWavelet Subband Features in the Classification of ECG Beats Using Probabilistic Neural Network. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0