

Sung-Nien Yu

List of Publications by Year in descending order

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33
papers

768
citations

840776

11
h-index

713466

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33
all docs

33
docs citations

33
times ranked

857
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber optic nanogold-linked immunosorbent assay for rapid detection of procalcitonin at femtomolar concentration level. <i>Biosensors and Bioelectronics</i> , 2020, 151, 111871.	10.1	58
2	Mobile Learning System with Context-Aware Interactions and Point-of-Interest Understanding. , 2018, , .		1
3	Wavelet-Based Multiscale Sample Entropy and Chaotic Features for Congestive Heart Failure Recognition Using Heart Rate Variability. <i>Journal of Medical and Biological Engineering</i> , 2015, 35, 338-347.	1.8	13
4	Subband higher-order statistics and cross-correlation for heartbeat type recognition based on two-lead electrocardiogram. , 2014, 2014, 42-5.		0
5	Bispectral analysis and genetic algorithm for congestive heart failure recognition based on heart rate variability. <i>Computers in Biology and Medicine</i> , 2012, 42, 816-825.	7.0	74
6	Conditional mutual information-based feature selection for congestive heart failure recognition using heart rate variability. <i>Computer Methods and Programs in Biomedicine</i> , 2012, 108, 299-309.	4.7	36
7	Selection of effective features for ECG beat recognition based on nonlinear correlations. <i>Artificial Intelligence in Medicine</i> , 2012, 54, 43-52.	6.5	28
8	A Configurable Digital Cellular Neural Network with Template Decomposition. <i>Circuits, Systems, and Signal Processing</i> , 2011, 30, 463-482.	2.0	0
9	Transfer-matrix renormalization group method for general Markov random fields. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 801-810.	2.6	4
10	An efficient paradigm for wavelet-based image processing using cellular neural networks. <i>International Journal of Circuit Theory and Applications</i> , 2010, 38, 527-542.	2.0	3
11	Detection of microcalcifications in digital mammograms using combined model-based and statistical textural features. <i>Expert Systems With Applications</i> , 2010, 37, 5461-5469.	7.6	39
12	Asymptotics of the partition function of a general Markov random field on an infinite rectangular lattice. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 736-746.	2.6	4
13	Improving liquid chromatography-tandem mass spectrometry determinations by modifying noise frequency spectrum between two consecutive wavelet-based low-pass filtering procedures. <i>Journal of Chromatography A</i> , 2010, 1217, 2804-2811.	3.7	5
14	Detection of seizures in EEG using subband nonlinear parameters and genetic algorithm. <i>Computers in Biology and Medicine</i> , 2010, 40, 823-830.	7.0	69
15	Emulation of salamander retina with multilayer neural network. , 2009, , .		0
16	ECG beat classification based on signal decomposition: a comparative study. , 2009, , .		1
17	Noise-tolerant electrocardiogram beat classification based on higher order statistics of subband components. <i>Artificial Intelligence in Medicine</i> , 2009, 46, 165-178.	6.5	51
18	Quantitative correlation between sonographic textural feature and histopathological components for breast cancer: preliminary results. <i>Clinical Imaging</i> , 2008, 32, 93-102.	1.5	5

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19	Tailoring Noise Frequency Spectrum between Two Consecutive Second Derivative Filtering Procedures to Improve Liquid Chromatography-Mass Spectrometry Determinations. <i>Analytical Chemistry</i> , 2008, 80, 2097-2104.	6.5	6
20	Categorizing Heartbeats by Independent Component Analysis and Support Vector Machines. , 2008, , .		5
21	Subband Features Based on Higher Order Statistics for ECG Beat Classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 1859-62.	0.5	10
22	Recognition of Microcalcifications in Digital Mammograms Based on Markov Random Field and Deterministic Fractal Modeling. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 3922-5.	0.5	5
23	Electrocardiogram beat classification based on wavelet transformation and probabilistic neural network. <i>Pattern Recognition Letters</i> , 2007, 28, 1142-1150.	4.2	218
24	Detection of microcalcifications in digital mammograms using wavelet filter and Markov random field model. <i>Computerized Medical Imaging and Graphics</i> , 2006, 30, 163-173.	5.8	68
25	Combining Independent Component Analysis and Backpropagation Neural Network for ECG Beat Classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , .	0.5	0
26	Comparison of Different Wavelet Subband Features in the Classification of ECG Beats Using Probabilistic Neural Network. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , .	0.5	0
27	Quantitatively Characterizing the Textural Features of Sonographic Images for Breast Cancer With Histopathologic Correlation. <i>Journal of Ultrasound in Medicine</i> , 2005, 24, 651-661.	1.7	8
28	A three-object model for the similarity searches of chest CT images. <i>Computerized Medical Imaging and Graphics</i> , 2005, 29, 617-630.	5.8	9
29	A Wireless Physiological Signal Monitoring System with Integrated Bluetooth and WiFi Technologies. , 2005, 2005, 2203-6.		17
30	Biomechanical properties and a kinetic simulation model of the smooth muscle I2 in the buccal mass of Aplysia. <i>Biological Cybernetics</i> , 1999, 81, 505-513.	1.3	28
31	A new Maxnet. , 0, , .		1
32	Embedding of Multiple Functions into a Single Cellular Neural Network: An Image Filtering Perspective. , 0, , .		2
33	Efficient Searching for Robust CNN Templates with Combined Analytic and Evolutionary Methods. , 0, , .		0