

# Leontios J Hadjileontiadis

## List of Publications by Year in descending order

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174  
papers

5,950  
citations

76326

40  
h-index

85541

71  
g-index

185  
all docs

185  
docs citations

185  
times ranked

5016  
citing authors

#	ARTICLE	IF	CITATIONS
1	Parkinson's Disease Detection Based on Running Speech Data From Phone Calls. IEEE Transactions on Biomedical Engineering, 2022, 69, 1573-1584.	4.2	27
2	Digital Health Technologies for Long-term Self-management of Osteoporosis: Systematic Review and Meta-analysis. JMIR MHealth and UHealth, 2022, 10, e32557.	3.7	24
3	Privacy Aware Affective State Recognition From Visual Data. IEEE Access, 2022, 10, 40620-40628.	4.2	7
4	Machine Learning-Based Analysis of Digital Movement Assessment and ExerGame Scores for Parkinson's Disease Severity Estimation. Frontiers in Psychology, 2022, 13, 857249.	2.1	5
5	Diagnostic accuracy of keystroke dynamics as digital biomarkers for fine motor decline in neuropsychiatric disorders: a systematic review and meta-analysis. Scientific Reports, 2022, 12, 7690.	3.3	30
6	Beyond Pathogen Filtration: Possibility of Smart Masks as Wearable Devices for Personal and Group Health and Safety Management. JMIR MHealth and UHealth, 2022, 10, e38614.	3.7	8
7	Estimating Left Ventricle Ejection Fraction Levels Using Circadian Heart Rate Variability Features and Support Vector Regression Models. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 746-754.	6.3	23
8	FuzzyQoI-Based Estimation of the Quality of Interaction in Online Learning Amid Covid-19: A Greek Case-Study. Communications in Computer and Information Science, 2021, , 249-262.	0.5	0
9	Revisiting Left Ventricular Ejection Fraction Levels: A Circadian Heart Rate Variability-Based Approach. IEEE Access, 2021, 9, 130111-130126.	4.2	8
10	DeepFoG: An IMU-Based Detection of Freezing of Gait Episodes in Parkinson's Disease Patients via Deep Learning. Frontiers in Robotics and AI, 2021, 8, 537384.	3.2	37
11	Efficient syncope prediction from resting state clinical data using wavelet bispectrum and multilayer perceptron neural network. Medical and Biological Engineering and Computing, 2021, 59, 1311-1324.	2.8	1
12	Noise-Assisted Multivariate Variational Mode Decomposition. , 2021, , .		1
13	Deep Learning Predicts Heart Failure With Preserved, Mid-Range, and Reduced Left Ventricular Ejection Fraction From Patient Clinical Profiles. Frontiers in Cardiovascular Medicine, 2021, 8, 755968.	2.4	10
14	Swarm Decomposition Enhances the Discrimination of Cardiac Arrhythmias in Varied-Lead ECG Using ResNet-BiLSTM Network Activations. , 2021, , .		1
15	The Effectiveness of Point-of-Care Testing with Intervention in Psychopathology: A Pilot Study. , 2021, , .		1
16	Prediction of LVEF using BiLSTM and Swarm Decomposition-based 24-h HRV Components. , 2021, , .		0
17	Swarm Decomposition of Abdominal Signals for Non-invasive Fetal ECG Extraction. , 2021, 2021, 775-778.		0
18	On modeling the quality of concept mapping toward more intelligent online learning feedback: a fuzzy logic-based approach. Universal Access in the Information Society, 2020, 19, 485-498.	3.0	6

#	ARTICLE	IF	CITATIONS
19	Detection of Mild Cognitive Impairment Through Natural Language and Touchscreen Typing Processing. <i>Frontiers in Digital Health</i> , 2020, 2, 567158.	2.8	22
20	DeepLMS: a deep learning predictive model for supporting online learning in the Covid-19 era. <i>Scientific Reports</i> , 2020, 10, 19888.	3.3	47
21	Screening of Parkinsonian subtle fine-motor impairment from touchscreen typing via deep learning. <i>Scientific Reports</i> , 2020, 10, 12623.	3.3	22
22	Unobtrusive detection of Parkinson's disease from multi-modal and in-the-wild sensor data using deep learning techniques. <i>Scientific Reports</i> , 2020, 10, 21370.	3.3	32
23	Reduced pain and analgesic use after acoustic binaural beats therapy in chronic pain – A double-blind randomized control crossover trial. <i>European Journal of Pain</i> , 2020, 24, 1716-1729.	2.8	14
24	Assistive HCI-Serious Games Co-design Insights: The Case Study of i-PROGNOSIS Personalized Game Suite for Parkinson's Disease. <i>Frontiers in Psychology</i> , 2020, 11, 612835.	2.1	11
25	Cross-Course and Multi-course Sentiment Classification of Student Posts. <i>Lecture Notes in Computer Science</i> , 2020, , 55-65.	1.3	0
26	Care4MyHeart-PSG: A Personalized Serious Game Platform to Empower Phase III Cardiac Rehabilitation of Cardiovascular Disease Patients in UAE. <i>Lecture Notes in Computer Science</i> , 2020, , 233-250.	1.3	2
27	Wavelet Entropy-Based Inter-subject Associative Cortical Source Localization for Sensorimotor BCI. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 47.	2.5	12
28	Towards an Intelligent Learning Management System: The A/B/C-TEACH Approach. <i>Communications in Computer and Information Science</i> , 2019, , 397-411.	0.5	3
29	Touchscreen typing pattern analysis for remote detection of the depressive tendency. <i>Scientific Reports</i> , 2019, 9, 13414.	3.3	59
30	Fetal Cardiac Timing Events Estimation From Doppler Ultrasound Signals Using Swarm Decomposition. <i>Frontiers in Physiology</i> , 2019, 10, 789.	2.8	6
31	Sentiment Analysis Techniques and Applications in Education: A Survey. <i>Communications in Computer and Information Science</i> , 2019, , 412-427.	0.5	25
32	Early Parkinson's Disease Detection via Touchscreen Typing Analysis using Convolutional Neural Networks. , 2019, 2019, 3535-3538.		14
33	Current Techniques for Breath Sound Analysis. , 2018, , 139-177.		4
34	Evidence of Variabilities in EEG Dynamics During Motor Imagery-Based Multiclass Brain-Computer Interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 371-382.	4.9	52
35	Optimal detector design for molecular communication systems using an improved swarm intelligence algorithm. <i>Micro and Nano Letters</i> , 2018, 13, 383-388.	1.3	10
36	A Multimodal Approach for the Safeguarding and Transmission of Intangible Cultural Heritage: The Case of i-Treasures. <i>IEEE Intelligent Systems</i> , 2018, 33, 3-16.	4.0	53

#	ARTICLE	IF	CITATIONS
37	Motor Impairment Estimates via Touchscreen Typing Dynamics Toward Parkinson's Disease Detection From Data Harvested In-the-Wild. <i>Frontiers in ICT</i> , 2018, 5, .	3.6	25
38	Image-Based Visibility Estimation Algorithm for Intelligent Transportation Systems. <i>IEEE Access</i> , 2018, 6, 76728-76740.	4.2	35
39	Assessment of problem solving ability in novice programmers. <i>PLoS ONE</i> , 2018, 13, e0201919.	2.5	5
40	Touchscreen typing-pattern analysis for detecting fine motor skills decline in early-stage Parkinson's disease. <i>Scientific Reports</i> , 2018, 8, 7663.	3.3	59
41	Continuous wavelet transform and higher-order spectrum: combinatory potentialities in breath sound analysis and electroencephalogram-based pain characterization. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170249.	3.4	12
42	Exploring the Potential of Computer-Based Concept Mapping Under Self-and Collaborative Mode Within Emerging Learning Environments. , 2018, , 101-122.		0
43	The effect of cigarette smoking on fetal heart rate tracing during pregnancy. <i>Journal of Perinatal Medicine</i> , 2017, 45, 403-411.	1.4	10
44	Computer-based concept mapping combined with learning management system use: An explorative study under the self- and collaborative-mode. <i>Computers and Education</i> , 2017, 107, 127-146.	8.3	35
45	Technologies for enhancing accessibility and fighting info-exclusion. <i>Universal Access in the Information Society</i> , 2017, 16, 529-531.	3.0	1
46	Enhanced inter-subject brain computer interface with associative sensorimotor oscillations. <i>Healthcare Technology Letters</i> , 2017, 4, 39-43.	3.3	17
47	Brain source localization of MMN and P300 ERPs in mild cognitive impairment and Alzheimer's disease: a high-density EEG approach. <i>Neurobiology of Aging</i> , 2017, 55, 190-201.	3.1	49
48	Age-induced differences in brain neural activation elicited by visual emotional stimuli: A high-density EEG study. <i>Neuroscience</i> , 2017, 340, 268-278.	2.3	10
49	Swarm decomposition: A novel signal analysis using swarm intelligence. <i>Signal Processing</i> , 2017, 132, 40-50.	3.7	55
50	Bullying incidences identification within an immersive environment using HD EEG-based analysis: A Swarm Decomposition and Deep Learning approach. <i>Scientific Reports</i> , 2017, 7, 17292.	3.3	23
51	Are Elderly Less Responsive to Emotional Stimuli? An EEG-based Study across Pleasant, Unpleasant and Neutral Greek Words. , 2017, , .		0
52	Dynamic spectrum sensing through accelerated particle swarm optimization. , 2017, , .		0
53	A Hybrid EMD-Kurtosis Method for Estimating Fetal Heart Rate from Continuous Doppler Signals. <i>Frontiers in Physiology</i> , 2017, 8, 641.	2.8	18
54	Fetal Heart Sounds Detection Using Wavelet Transform and Fractal Dimension. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 49.	4.1	30

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55	Potential of hybrid adaptive filtering in inflammatory lesion detection from capsule endoscopy images. World Journal of Gastroenterology, 2016, 22, 8641.	3.3	31
56	Use of adaptive hybrid filtering process in Crohn's disease lesion detection from real capsule endoscopy videos. Healthcare Technology Letters, 2016, 3, 27-33.	3.3	6
57	Obstacle detection and avoidance module for the blind. , 2016, , .		9
58	Cognitive MMN and P300 in mild cognitive impairment and Alzheimer's disease: A high density EEG-3D vector field tomography approach. Brain Research, 2016, 1648, 425-433.	2.2	43
59	An open access database for the evaluation of heart sound algorithms. Physiological Measurement, 2016, 37, 2181-2213.	2.1	473
60	On mapping emotional states and implicit gestures to sonification output from the 'Intangible Musical Instrument'. , 2016, , .		4
61	Fuzzy logic-based risk of fall estimation using smartwatch data as a means to form an assistive feedback mechanism in everyday living activities. Healthcare Technology Letters, 2016, 3, 263-268.	3.3	16
62	FISCMAP. , 2016, , .		3
63	PERIODICITY ANALYSIS OF GAMMA RADIATION MEASUREMENTS IN THESSALONIKI, NORTHERN GREECE, IN THE PERIOD 1988â€“2015. Radiation Protection Dosimetry, 2016, 172, 501-509.	0.8	1
64	On Modeling the Quality of Nutrition for Healthy Ageing Using Fuzzy Cognitive Maps. Lecture Notes in Computer Science, 2016, , 332-343.	1.3	5
65	Gender effect in human brain responses to bottom-up and top-down attention using the EEG 3D-Vector Field Tomography. , 2015, 2015, 7574-7.		2
66	Towards a Practical Subject-Independent Affective State Recognition Based on Time-Domain EEG Feature Extraction. International Journal of Heritage in the Digital Era, 2015, 4, 165-177.	0.5	4
67	An Integrated Platform Supporting Intangible Cultural Heritage Learning and Transmission: Definition of Requirements and Evaluation Criteria. Journal of Computing and Information Technology, 2015, 22, 277.	0.3	6
68	Age Effect in Human Brain Responses to Emotion Arousing Images: The EEG 3D-Vector Field Tomography Modeling Approach. IEEE Transactions on Autonomous Mental Development, 2015, 7, 223-235.	1.6	3
69	Fuzzy cognitive mapping of LMS usersâ€™ Quality of Interaction within higher education blended-learning environment. Expert Systems With Applications, 2015, 42, 7399-7423.	7.6	43
70	Phase-amplitude cross-frequency coupling in EEG-derived cortical time series upon an auditory perception task. , 2015, 2015, 4150-3.		6
71	Tomographic Reconstruction of 3-D Irrotational Vector Fields via a Discretized Ray Transform. Journal of Mathematical Imaging and Vision, 2015, 52, 285-302.	1.3	7
72	EEG-Based Tonic Cold Pain Characterization Using Wavelet Higher Order Spectral Features. IEEE Transactions on Biomedical Engineering, 2015, 62, 1981-1991.	4.2	41

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73	Swarm Intelligence for Detecting Interesting Events in Crowded Environments. IEEE Transactions on Image Processing, 2015, 24, 2153-2166.	9.8	90
74	Brain source localization of MMN, P300 and N400: Aging and gender differences. Brain Research, 2015, 1603, 32-49.	2.2	52
75	Software for enhancing accessibility and fighting info-exclusion. Universal Access in the Information Society, 2015, 14, 1-3.	3.0	0
76	EmoActivity - An EEG-Based Gamified Emotion HCI for Augmented Artistic Expression: The i-Treasures Paradigm. Lecture Notes in Computer Science, 2015, , 29-40.	1.3	8
77	Towards an HCI-Based Symbiotic Environment for Alzheimer's Support. Advances in Psychology, Mental Health, and Behavioral Studies, 2015, , 240-268.	0.1	0
78	Enhancing Blended Environments Through Fuzzy Cognitive Mapping of LMS Users' Quality of Interaction: The Rare and Contemporary Dance Paradigms. Lecture Notes in Computer Science, 2015, , 31-42.	1.3	0
79	Efficient Heart Sound Segmentation and Extraction Using Ensemble Empirical Mode Decomposition and Kurtosis Features. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1138-1152.	6.3	151
80	Towards an Intelligent Learning Management System Under Blended Learning. Intelligent Systems Reference Library, 2014, , .	1.2	35
81	Exploring B-Learning Scenarios Using Fuzzy Logic-Based Modeling of Users' LMS Quality of Interaction in Ergonomics and Psychomotor Rehabilitation Academic Courses. Lecture Notes in Computer Science, 2014, , 233-243.	1.3	3
82	Cognitive Brain Signal Processing: Healthy vs Alzheimer's Disease Patients. Lecture Notes in Computer Science, 2014, , 503-514.	1.3	4
83	Data Collection Strategies. Intelligent Systems Reference Library, 2014, , 55-68.	1.2	0
84	On Enhancing Disabled Students' Accessibility in Environmental Education Using ICT: The MusicPaint Case. Lecture Notes in Computer Science, 2014, , 325-336.	1.3	0
85	EEG-Based Classification of Music Appraisal Responses Using Time-Frequency Analysis and Familiarity Ratings. IEEE Transactions on Affective Computing, 2013, 4, 161-172.	8.3	80
86	Towards an overall 3-D vector field reconstruction via discretization and a linear equations system. , 2013, , .		3
87	Computer-aided capsule endoscopy images evaluation based on color rotation and texture features: An educational tool to physicians. , 2013, , .		24
88	A curvelet-based lacunarity approach for ulcer detection from Wireless Capsule Endoscopy images. , 2013, , .		27
89	Symbiosis: An Innovative Human-Computer Interaction Environment for Alzheimer's Support. Lecture Notes in Computer Science, 2013, , 123-132.	1.3	6
90	Obstacle Detection using Stereo Imaging to Assist the Navigation of Visually Impaired People. Procedia Computer Science, 2012, 14, 83-93.	2.0	46

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91	Intrinsic higher-order correlation and lacunarity analysis for WCE-based ulcer classification. , 2012, , .		6
92	Using Peano–Hilbert space filling curves for fast bidimensional ensemble EMD realization. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	4
93	Toward an EEG-Based Recognition of Music Liking Using Time-Frequency Analysis. IEEE Transactions on Biomedical Engineering, 2012, 59, 3498-3510.	4.2	206
94	Adaptive Emotional Information Retrieval From EEG Signals in the Time-Frequency Domain. IEEE Transactions on Signal Processing, 2012, 60, 2604-2616.	5.3	76
95	Introduction to the special issue on “biosignal processing for engineering and computing: The MEDICON conference case—selected papers from MEDICON 2010. Biomedical Signal Processing and Control, 2012, 7, 213-214.	5.7	0
96	Capsule endoscopy image analysis using texture information from various colour models. Computer Methods and Programs in Biomedicine, 2012, 107, 61-74.	4.7	43
97	Enhanced Sign Language Recognition Using Weighted Intrinsic-Mode Entropy and Signer's Level of Deafness. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1531-1543.	5.0	15
98	Revealing Action Representation Processes in Audio Perception Using Fractal EEG Analysis. IEEE Transactions on Biomedical Engineering, 2011, 58, 1120-1129.	4.2	17
99	A Novel Emotion Elicitation Index Using Frontal Brain Asymmetry for Enhanced EEG-Based Emotion Recognition. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 737-746.	3.2	186
100	Tempo Induction from Music Recordings Using Ensemble Empirical Mode Decomposition Analysis. Computer Music Journal, 2011, 35, 83-97.	0.1	0
101	Bispectral EEG analysis for knowledge scaffolding in music perception: A mirror neurons-based approach. Journal of Computational Methods in Sciences and Engineering, 2011, 11, 91-107.	0.2	1
102	Landmarks Detection to Assist the Navigation of Visually Impaired People. Lecture Notes in Computer Science, 2011, , 293-300.	1.3	5
103	Catastrophe Theory: An Enhanced Structural and Ontological Space in Music Composition. Lecture Notes in Computer Science, 2011, , 358-361.	1.3	0
104	Non-Linear Vibration Technique for Crack Detection in Beam Structures Using Frequency Mixing. Acta Acustica United With Acustica, 2010, 96, 977-980.	0.8	3
105	An emotion elicitation metric for the Valence/Arousal and six basic emotions affective models: A comparative study. , 2010, , .		1
106	Using sample entropy for automated sign language recognition on sEMG and accelerometer data. Medical and Biological Engineering and Computing, 2010, 48, 255-267.	2.8	21
107	Sensorimotor cortical response during motion reflecting audiovisual stimulation: evidence from fractal EEG analysis. Medical and Biological Engineering and Computing, 2010, 48, 561-572.	2.8	11
108	Analysis of Wheezes Using Wavelet Higher Order Spectral Features. IEEE Transactions on Biomedical Engineering, 2010, 57, 1596-1610.	4.2	53

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109	Emotion Recognition From EEG Using Higher Order Crossings. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 186-197.	3.2	541
110	Emotion Recognition from Brain Signals Using Hybrid Adaptive Filtering and Higher Order Crossings Analysis. IEEE Transactions on Affective Computing, 2010, 1, 81-97.	8.3	203
111	Abnormal pattern detection in Wireless Capsule Endoscopy images using nonlinear analysis in RGB color space. , 2010, 2010, 3674-7.		17
112	Adaptive extraction of emotion-related EEG segments using multidimensional directed information in time-frequency domain. , 2010, 2010, 1-4.		5
113	Ulcer Detection in Wireless Capsule Endoscopy Images Using Bidimensional Nonlinear Analysis. IFMBE Proceedings, 2010, , 236-239.	0.3	9
114	Brain-Computer Interface (BCI): Types, Processing Perspectives and Applications. Smart Innovation, Systems and Technologies, 2010, , 299-321.	0.6	23
115	Submaximal Fatigue and Recovery in Boys and Men. International Journal of Sports Medicine, 2009, 30, 741-746.	1.7	17
116	A Texture-Based Classification of Crackles and Squawks Using Lacunarity. IEEE Transactions on Biomedical Engineering, 2009, 56, 718-732.	4.2	31
117	Sign Language Recognition Using Intrinsic-Mode Sample Entropy on sEMG and Accelerometer Data. IEEE Transactions on Biomedical Engineering, 2009, 56, 2879-2890.	4.2	81
118	Surface EMG analysis on normal subjects based on isometric voluntary contraction. Journal of Electromyography and Kinesiology, 2009, 19, 157-171.	1.7	70
119	EEG-based emotion recognition using hybrid filtering and higher order crossings. , 2009, , .		23
120	Analysis of Capsule Endoscopy Images Related to Gastric Ulcer Using Bidimensional Empirical Mode Decomposition. IFMBE Proceedings, 2009, , 642-645.	0.3	1
121	Transmembrane helix prediction in proteins using hydrophobicity properties and higher-order statistics. Computers in Biology and Medicine, 2008, 38, 867-880.	7.0	10
122	Music Perception as Reflected in Bispectral EEG Analysis under a Mirror Neurons-Based Approach. Studies in Computational Intelligence, 2008, , 137-146.	0.9	1
123	Hilbert-Huang Spectrum as a new field for the identification of EEG event related de-/synchronization for BCI applications. , 2008, 2008, 3832-5.		8
124	Lung Sounds: An Advanced Signal Processing Perspective. Synthesis Lectures on Biomedical Engineering, 2008, 3, 1-100.	0.1	11
125	In vitro“in vivo correlations of self-emulsifying drug delivery systems combining the dynamic lipolysis model and neuro-fuzzy networks. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 69, 887-898.	4.3	46
126	NOESIS: An Enhanced Educational Environment for Kids with Autism Spectrum Disorders. , 2008, , .		4



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127	&#147;SEE and SEE&#148;; An Educational Tool for Kids with Hard of Hearing. , 2008, , .		1
128	Discrimination of single and multiple human transmembrane proteins using kurtosis and morphological analysis. , 2008, 2008, 1351-4.		0
129	Intrinsic mode entropy: An enhanced classification means for automated Greek Sign Language gesture recognition. , 2008, 2008, 5057-60.		6
130	Primary School Music Education and the Effect of Auditory Processing Disorders: Pedagogical/ICT-Based Implications. , 2008, , .		0
131	Classification of Transmembrane Segments in Human Proteins Using Wavelet-based Energy. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1225-8.	0.5	2
132	Wavelet-based Analysis of Nocturnal Snoring in Apneic Patients Undergoing Polysomnography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1912-5.	0.5	9
133	Analysis of Fetal Heart Rate in Healthy and Pathological Pregnancies Using Wavelet-based Features. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1908-11.	0.5	11
134	Professional learning: A fuzzy logic-based modelling approach. Learning and Instruction, 2007, 17, 235-252.	3.2	10
135	Automated Iris and Gaze Detection Using Chrominance: Application to Human-Computer Interaction Using a Low Resolution Webcam. , 2007, , .		4
136	Nonlinear analysis of wheezes using wavelet bicoherence. Computers in Biology and Medicine, 2007, 37, 563-570.	7.0	33
137	Wheeze detection based on time-frequency analysis of breath sounds. Computers in Biology and Medicine, 2007, 37, 1073-1083.	7.0	180
138	Crack detection in plates using fractal dimension. Engineering Structures, 2007, 29, 1612-1625.	5.3	98
139	Kurtosis analysis for crack detection in thin isotropic rectangular plates. Engineering Structures, 2007, 29, 2353-2364.	5.3	16
140	A novel technique for denoising explosive lung sounds emnpirmical mode decomposition and fractal dimension foilte. IEEE Engineering in Medicine and Biology Magazine, 2007, 26, 30-39.	0.8	44
141	Timeâ€“frequency analysis of transient dispersive waves: A comparative study. Applied Acoustics, 2007, 68, 296-309.	3.3	18
142	Nonlinear analysis of heart murmurs using wavelet-based higher-order spectral parameters. , 2006, 2006, 4502-5.		6
143	An iterative kurtosis-based technique for the detection of nonstationary bioacoustic signals. Signal Processing, 2006, 86, 3787-3795.	3.7	34
144	Adaptive Neuro-Fuzzy Modeling of Poorly Soluble Drug Formulations. Pharmaceutical Research, 2006, 23, 1157-1164.	3.5	7

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145	Nonlinear characteristics of wheezes as seen in the wavelet higher-order spectra domain. , 2006, 2006, 4506-9.		1
146	Linear discrimination of transmembrane from non-transmembrane segments in proteins using higher-order crossings. , 2006, 2006, 5818-21.		3
147	Evaluation of surface EMG features for the recognition of American Sign Language gestures. , 2006, 2006, 6197-200.		31
148	Nonlinear analysis of heart murmurs using wavelet-based higher-order spectral parameters. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
149	Linear discrimination of transmembrane from non-transmembrane segments in proteins using higher-order crossings. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
150	Nonlinear characteristics of wheezes as seen in the wavelet higher-order spectra domain. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
151	Timeâ€“frequency analysis of the free vibration response of a beam with a breathing crack. NDT and E International, 2005, 38, 3-10.	3.7	114
152	Fractal dimension analysis for crack identification in beam structures. Mechanical Systems and Signal Processing, 2005, 19, 659-674.	8.0	106
153	Crack detection in beams using kurtosis. Computers and Structures, 2005, 83, 909-919.	4.4	49
154	Using higher-order crossings to distinguish liver regeneration indices in hepatectomized diabetic and non-diabetic rats. Journal of Gastroenterology and Hepatology (Australia), 2005, 20, 126-134.	2.8	2
155	Wavelet-Based Enhancement of Lung and Bowel Sounds Using Fractal Dimension Thresholdingâ€” Part I: Methodology. IEEE Transactions on Biomedical Engineering, 2005, 52, 1143-1148.	4.2	51
156	Wavelet-Based Enhancement of Lung and Bowel Sounds Using Fractal Dimension Thresholding â€”Part II: Application Results. IEEE Transactions on Biomedical Engineering, 2005, 52, 1050-1064.	4.2	45
157	Forced vibration behaviour and crack detection of cracked beams using instantaneous frequency. NDT and E International, 2005, 38, 411-419.	3.7	92
158	A two-dimensional wavelet transform for detection of cracks in plates. Engineering Structures, 2005, 27, 1327-1338.	5.3	86
159	ICASP: An Intensive-Care Acquisition and Signal Processing Integrated Framework. Journal of Medical Systems, 2005, 29, 633-646.	3.6	7
160	On Applying Continuous Wavelet Transform in Wheeze Analysis. , 2004, 2004, 3832-5.		25
161	Automatic P Phase Picking Using Maximum Kurtosis and $\kappa$ -Statistics Criteria. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 147-151.	3.1	49
162	Bowel sounds analysis: a novel noninvasive method for diagnosis of small-volume ascites. Digestive Diseases and Sciences, 2003, 48, 1630-1636.	2.3	26

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163	Discrimination analysis of discontinuous breath sounds using higher-order crossings. Medical and Biological Engineering and Computing, 2003, 41, 445-455.	2.8	15
164	Detection of explosive lung and bowel sounds by means of fractal dimension. IEEE Signal Processing Letters, 2003, 10, 311-314.	3.6	121
165	PAI-S/K: A robust automatic seismic P phase arrival identification scheme. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 1395-1404.	6.3	206
166	ECG data compression using wavelets and higher order statistics methods. IEEE Transactions on Information Technology in Biomedicine, 2001, 5, 108-115.	3.2	64
167	Enhancement of bowel sounds by wavelet-based filtering. IEEE Transactions on Biomedical Engineering, 2000, 47, 876-886.	4.2	56
168	An orthogonal least squares-based fuzzy filter for real-time analysis of lung sounds. IEEE Transactions on Biomedical Engineering, 2000, 47, 1165-1176.	4.2	42
169	Real-time separation of discontinuous adventitious sounds from vesicular sounds using a fuzzy rule-based filter. IEEE Transactions on Information Technology in Biomedicine, 1998, 2, 204-215.	3.2	23
170	A wavelet-based reduction of heart sound noise from lung sounds. International Journal of Medical Informatics, 1998, 52, 183-190.	3.3	71
171	Higher-order statistics: a robust vehicle for diagnostic assessment and characterisation of lung sounds. Technology and Health Care, 1997, 5, 359-374.	1.2	6
172	Adaptive reduction of heart sounds from lung sounds using fourth-order statistics. IEEE Transactions on Biomedical Engineering, 1997, 44, 642-648.	4.2	88
173	Separation of discontinuous adventitious sounds from vesicular sounds using a wavelet-based filter. IEEE Transactions on Biomedical Engineering, 1997, 44, 1269-1281.	4.2	112
174	A Comparative Phonocardiography Study: Two Wavelet Based Methods for Fetal Heart Sound Detection. , 0, , .		0