Ervin Sejdic

List of Publications by Year
in descending order

208	5,944	109264	128225
papers	citations	35 h-index	60 g-index

209	209	209	6037
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Review of Recurrent Neural Network-Based Methods in Computational Physiology. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6983-7003.	7.2	17
2	Establishing Reference Values for Temporal Kinematic Swallow Events Across the Lifespan in Healthy Community Dwelling Adults Using High-Resolution Cervical Auscultation. Dysphagia, 2022, 37, 664-675.	1.0	5
3	Characterizing Effortful Swallows from Healthy Community Dwelling Adults Across the Lifespan Using High-Resolution Cervical Auscultation Signals and MBSImP Scores: A Preliminary Study. Dysphagia, 2022, 37, 1103-1111.	1.0	2
4	Improving Non-Invasive Aspiration Detection With Auxiliary Classifier Wasserstein Generative Adversarial Networks. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1263-1272.	3.9	5
5	A Preliminary Investigation of Similarities of High Resolution Cervical Auscultation Signals Between Thin Liquid Barium and Water Swallows. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-9.	2.2	4
6	Artificial Intelligence and the Risk for Intuition Decline in Clinical Medicine. American Journal of Gastroenterology, 2022, Publish Ahead of Print, .	0.2	1
7	Predicting falls within 3 months of emergency department discharge among community-dwelling older adults using self-report tools versus a brief functional assessment. American Journal of Emergency Medicine, 2022, 53, 245-249.	0.7	1
8	Remote and wearable ECG devices with diagnostic abilities in adults: A state-of-the-science scoping review. Heart Rhythm, 2022, 19, 1192-1201.	0.3	19
9	Facilitators and barriers to real-life mobility in community-dwelling older adults: a narrative review of accelerometry- and global positioning system-based studies. Aging Clinical and Experimental Research, 2022, 34, 1733-1746.	1.4	7
10	Cervical Vertebral Height Approximates Hyoid Displacement in Videofluoroscopic Images of Healthy Adults. Dysphagia, 2022, 37, 1689-1696.	1.0	4
11	How Closely do Machine Ratings of Duration of UES Opening During Videofluoroscopy Approximate Clinician Ratings Using Temporal Kinematic Analyses and the MBSImP?. Dysphagia, 2021, 36, 707-718.	1.0	14
12	A Preliminary Investigation of Whether HRCA Signals Can Differentiate Between Swallows from Healthy People and Swallows from People with Neurodegenerative Diseases. Dysphagia, 2021, 36, 635-643.	1.0	17
13	Tracking Hyoid Bone Displacement During Swallowing Without Videofluoroscopy Using Machine Learning of Vibratory Signals. Dysphagia, 2021, 36, 259-269.	1.0	25
14	Upper Esophageal Sphincter Opening Segmentation With Convolutional Recurrent Neural Networks in High Resolution Cervical Auscultation. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 493-503.	3.9	29
15	A review of Hidden Markov models and Recurrent Neural Networks for event detection and localization in biomedical signals. Information Fusion, 2021, 69, 52-72.	11.7	27
16	Estimation of laryngeal closure duration during swallowing without invasive X-rays. Future Generation Computer Systems, 2021, 115, 610-618.	4.9	17
17	Acceleration Gait Measures as Proxies for Motor Skill of Walking: A Narrative Review. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 249-261.	2.7	20
18	Breath Acetone Sensing Based on Single-Walled Carbon Nanotubeâ€“Titanium Dioxide Hybrids Enabled by a Custom-Built Dehumidifier. ACS Sensors, 2021, 6, 871-880.	4.0	22

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19	Anteriorâ€“posterior distension of maximal upper esophageal sphincter opening is correlated with high-resolution cervical auscultation signal features. Physiological Measurement, 2021, 42, 035002.	1.2	5
20	Mobility of Older Adults: Gait Quality Measures Are Associated With Life-Space Assessment Scores. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, e299-e306.	1.7	11
21	New horizons in falls prevention and management for older adults: a global initiative. Age and Ageing, 2021, 50, 1499-1507.	0.7	50
22	A generalized equation approach for hyoid bone displacement and penetrationâ€“aspiration scale analysis. SN Applied Sciences, 2021, 3, 1.	1.5	6
23	Is Human Walking a Network Medicine Problem? An Analysis Using Symbolic Regression Models with Genetic Programming. Computer Methods and Programs in Biomedicine, 2021, 206, 106104.	2.6	1
24	Characterizing Swallows From People With Neurodegenerative Diseases Using High-Resolution Cervical Auscultation Signals and Temporal and Spatial Swallow Kinematic Measurements. Journal of Speech, Language, and Hearing Research, 2021, 64, 3416-3431.	0.7	6
25	Automatic annotation of cervical vertebrae in videofluoroscopy images via deep learning. Medical Image Analysis, 2021, 74, 102218.	7.0	6
26	Association Between Dual-Task Gait and Cognitive Function in Older Adults. Innovation in Aging, 2021, 5, 161-161.	0.0	0
27	The Effect of a Verbal Cognitive Task on Postural Sway Does Not Persist When the Task Is Over. Sensors, 2021, 21, 8428.	2.1	5
28	Prefrontal Activation is Associated With Gait Quality During an Attentional Task in Older Adults. Innovation in Aging, 2021, 5, 978-979.	0.0	0
29	The Prediction of Risk of Penetrationâ€“Aspiration Via Hyoid Bone Displacement Features. Dysphagia, 2020, 35, 66-72.	1.0	20
30	Non-negative Matrix Factorization Reveals Resting-State Cortical Alpha Network Abnormalities in the First-Episode Schizophrenia Spectrum. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 961-970.	1.1	14
31	Non-invasive identification of swallows via deep learning in high resolution cervical auscultation recordings. Scientific Reports, 2020, 10, 8704.	1.6	37
32	Machine learning-based prediction of acute coronary syndrome using only the pre-hospital 12-lead electrocardiogram. Nature Communications, 2020, 11, 3966.	5.8	102
33	Automated Bolus Detection in Videofluoroscopic Images of Swallowing Using Mask-RCNN. , 2020, 2020, 2173-2177.		8
34	A Preliminary Study Using Smartphone Accelerometers to Sense Gait Impairments Due to Alcohol Intoxication. Journal of Studies on Alcohol and Drugs, 2020, 81, 505-510.	0.6	10
35	Vertex-frequency graph signal processing: A comprehensive review. , 2020, 107, 102802.		20
36	Exploring the complex interactions of baseline patient factors to improve nursing triage of acute coronary syndrome. Research in Nursing and Health, 2020, 43, 356-364.	0.8	7

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37	High-Resolution Cervical Auscultation and Data Science: New Tools to Address an Old Problem. American Journal of Speech-Language Pathology, 2020, 29, 992-1000.	0.9	12
38	Automatic Estimation of Laryngeal Vestibule Closure Duration Using High-Resolution Cervical Auscultation Signals. Perspectives of the ASHA Special Interest Groups, 2020, 5, 1647-1656.	0.4	10
39	ARTIFICIAL INTELLIGENCE AND DYSPHAGIA: NOVEL SOLUTIONS TO OLD PROBLEMS. Arquivos De Gastroenterologia, 2020, 57, 343-346.	0.3	4
40	Engineering Human Gait and the Potential Role of Wearable Sensors to Monitor Falls. , 2020, , 401-426.		1
41	Fear of Falling and Walking Quality: What Your Walking Reveals. Innovation in Aging, 2020, 4, 919-919.	0.0	0
42	A Tutorial on Sparse Signal Reconstruction and Its Applications in Signal Processing. Circuits, Systems, and Signal Processing, 2019, 38, 1206-1263.	1.2	48
43	Local Smoothness of Graph Signals. Mathematical Problems in Engineering, 2019, 2019, 1-14.	0.6	14
44	Bhattacharyya Distance-based Transfer Learning for a Hybrid EEG-FTCD Brain-computer Interface. , 2019, , .		1
45	Tetrahydrocannabinol Detection Using Semiconductor-Enriched Single-Walled Carbon Nanotube Chemiresistors. ACS Sensors, 2019, 4, 2084-2093.	4.0	46
46	What the future holds for Biomedical Engineering Online?. BioMedical Engineering OnLine, 2019, 18, 81.	1.3	0
47	Neurophysiological Characterization of a Non-Human Primate Model of Traumatic Spinal Cord Injury Utilizing Fine-Wire EMG Electrodes. Sensors, 2019, 19, 3303.	2.1	3
48	Neck sensor-supported hyoid bone movement tracking during swallowing. Royal Society Open Science, 2019, 6, 181982.	1.1	30
49	Understanding the Basis of Graph Signal Processing via an Intuitive Example-Driven Approach [Lecture Notes]. IEEE Signal Processing Magazine, 2019, 36, 133-145.	4.6	53
50	The Association of High Resolution Cervical Auscultation Signal Features With Hyoid Bone Displacement During Swallowing. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1810-1816.	2.7	21
51	Mutual Information for Transfer Learning in SSVEP Hybrid EEG-fTCD Brain-Computer Interfaces. , 2019, , .		0
52	EEG-fTCD hybrid brainâ€“computer interface using template matching and wavelet decomposition. Journal of Neural Engineering, 2019, 16, 036014.	1.8	6
53	Common spatial pattern and wavelet decomposition for motor imagery EEG- fTCD brain-computer interface. Journal of Neuroscience Methods, 2019, 320, 98-106.	1.3	19
54	Radiological images and machine learning: Trends, perspectives, and prospects. Computers in Biology and Medicine, 2019, 108, 354-370.	3.9	109

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55	Silent Aspiration Detection in High Resolution Cervical Auscultations. , 2019, , .		13
56	Transfer Learning for a Multimodal Hybrid EEG-fTCD Brainâ€“Computer Interface. , 2019, 3, 1-4.		13
57	A novel motor imagery hybrid brain computer interface using EEG and functional transcranial Doppler ultrasound. Journal of Neuroscience Methods, 2019, 313, 44-53.	1.3	14
58	High-Resolution Cervical Auscultation Signal Features Reflect Vertical and Horizontal Displacements of the Hyoid Bone During Swallowing. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-9.	2.2	22
59	Computational Deglutition: Using Signal- and Image-Processing Methods to Understand Swallowing and Associated Disorders [Life Sciences]. IEEE Signal Processing Magazine, 2019, 36, 138-146.	4.6	29
60	Detection of Swallow Kinematic Events From Acoustic High-Resolution Cervical Auscultation Signals in Patients With Stroke. Archives of Physical Medicine and Rehabilitation, 2019, 100, 501-508.	0.5	24
61	Machine-Learning Identification of the Sensing Descriptors Relevant in Molecular Interactions with Metal Nanoparticle-Decorated Nanotube Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 1219-1227.	4.0	25
62	Introduction to Graph Signal Processing. Signals and Communication Technology, 2019, , 3-108.	0.4	28
63	Deep learning for classification of normal swallows in adults. Neurocomputing, 2018, 285, 1-9.	3.5	25
64	Vertex-Frequency Energy Distributions. IEEE Signal Processing Letters, 2018, 25, 358-362.	2.1	13
65	Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. IEEE Transactions on Biomedical Engineering, 2018, 65, 2290-2297.	2.5	4
66	Motor and Cognitive Trajectories Before Dementia: Results from Gait and Brain Study. Journal of the American Geriatrics Society, 2018, 66, 1676-1683.	1.3	82
67	Simulating, Modeling, and Sensing Variable Tissues for Wireless Implantable Medical Devices. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3547-3556.	2.9	11
68	Implantable Energy Harvesting Stents for Transcutaneous Wireless Monitoring of Peripheral Artery Disease. IEEE Sensors Journal, 2018, 18, 2077-2090.	2.4	3
69	Deep Belief Networks for Electroencephalography: A Review of Recent Contributions and Future Outlooks. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 642-652.	3.9	81
70	Influence of attention and bolus volume on brain organization during swallowing. Brain Structure and Function, 2018, 223, 955-964.	1.2	13
71	A brain-computer interface based on functional transcranial doppler ultrasound using wavelet transform and support vector machines. Journal of Neuroscience Methods, 2018, 293, 174-182.	1.3	13
72	A software companion for compressively sensed timeâ€“frequency processing of sparse nonstationary signals. SoftwareX, 2018, 8, 9-10.	1.2	1

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73	Compressive sensing meets timeâ€“frequency: An overview of recent advances in timeâ€“frequency processing of sparse signals. , 2018, 77, 22-35.		75
74	â€œYou can tell by the way I use my walk.â€•Predicting the presence of cognitive load with gait measurements. BioMedical Engineering OnLine, 2018, 17, 122.	1.3	9
75	A telehealth system for automated diagnosis of asthma and chronical obstructive pulmonary disease. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1213-1217.	2.2	67
76	Reduced Interference Vertex-Frequency Distributions. IEEE Signal Processing Letters, 2018, 25, 1393-1397.	2.1	9
77	Towards optimal visual presentation design for hybrid EEGâ€”fTCD brainâ€“computer interfaces. Journal of Neural Engineering, 2018, 15, 056019.	1.8	10
78	Automatic Patency Discrimination in the Pig Bilateral Femoral Veins for Biomedical Implants. IEEE Sensors Journal, 2018, 18, 255-262.	2.4	1
79	Automatic hyoid bone detection in fluoroscopic images using deep learning. Scientific Reports, 2018, 8, 12310.	1.6	44
80	Dysphagia and its effects on swallowing sounds and vibrations in adults. BioMedical Engineering OnLine, 2018, 17, 69.	1.3	26
81	Internet of Medical Things: A Review of Recent Contributions Dealing With Cyber-Physical Systems in Medicine. IEEE Internet of Things Journal, 2018, 5, 3810-3822.	5.5	267
82	Model of Traumatic Spinal Cord Injury for Evaluating Pharmacologic Treatments in Cynomolgus Macaques (). Comparative Medicine, 2018, 68, 63-73.	0.4	3
83	Anatomical Directional Dissimilarities in Tri-axial Swallowing Accelerometry Signals. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 447-458.	2.7	20
84	Totally Implantable Wireless Ultrasonic Doppler Blood Flowmeters: Toward Accurate Miniaturized Chronic Monitors. Ultrasound in Medicine and Biology, 2017, 43, 561-578.	0.7	13
85	Average wavelet coefficient-based detection of chaos in oscillatory circuits. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 188-201.	0.5	4
86	Standing balance and strength measurements in older adults living in residential care communities. Aging Clinical and Experimental Research, 2017, 29, 1021-1030.	1.4	18
87	Association of Dual-Task Gait With Incident Dementia in Mild Cognitive Impairment. JAMA Neurology, 2017, 74, 857.	4.5	263
88	Most suitable mother wavelet for the analysis of fractal properties of stride interval time series via the average wavelet coefficient method. Computers in Biology and Medicine, 2017, 80, 175-184.	3.9	2
89	Analysis of the pen pressure and grip force signal during basic drawing tasks: The timing and speed changes impact drawing characteristics. Computers in Biology and Medicine, 2017, 87, 124-131.	3.9	14
90	A comparison between swallowing sounds and vibrations in patients with dysphagia. Computer Methods and Programs in Biomedicine, 2017, 144, 179-187.	2.6	16

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91	Differences in brain networks during consecutive swallows detected using an optimized vertexâ€“frequency algorithm. Neuroscience, 2017, 344, 113-123.	1.1	12
92	Testing of Anesthesia Machines and Defibrillators in Healthcare Institutions. Journal of Medical Systems, 2017, 41, 133.	2.2	47
93	Tissue Variability and Antennas for Power Transfer to Wireless Implantable Medical Devices. IEEE Journal of Translational Engineering in Health and Medicine, 2017, 5, 1-11.	2.2	26
94	Transfer learning for EEG based BCI using LEARN++.NSE and mutual information. , 2017, , .		3
95	Vertex-Frequency Analysis: A Way to Localize Graph Spectral Components [Lecture Notes]. IEEE Signal Processing Magazine, 2017, 34, 176-182.	4.6	46
96	Motor sequence learning-induced neural efficiency in functional brain connectivity. Behavioural Brain Research, 2017, 319, 87-95.	1.2	35
97	A fast algorithm for vertex-frequency representations of signals on graphs. Signal Processing, 2017, 131, 483-491.	2.1	17
98	Multi-Disciplinary Challenges in Tissue Modeling for Wireless Electromagnetic Powering: A Review. IEEE Sensors Journal, 2017, 17, 6498-6509.	2.4	29
99	Sparse recovery of time-frequency representations via recurrent neural networks. , 2017, , .		4
100	Windowing methods for graph signal localization. , 2017, , .		0
101	Can we use big data to understand functional changes in swallowing, gait and handwriting?. , 2017, , .		0
102	Adaptive Transcutaneous Power Transfer to Implantable Devices: A State of the Art Review. Sensors, 2016, 16, 393.	2.1	97
103	An EEG and fTCD based BCI for control. , 2016, , .		2
104	Transmission mechanisms with variable tissue properties in a paired electrode system for transcutaneous power. , 2016, , .		1
105	The effects of compressive sensing on extracted features from tri-axial swallowing accelerometry signals. , 2016, 9857, .		1
106	Classifying smoking urges via machine learning. Computer Methods and Programs in Biomedicine, 2016, 137, 203-213.	2.6	29
107	Functional connectivity patterns of normal human swallowing: difference among various viscosity swallows in normal and chin-tuck head positions. Brain Research, 2016, 1652, 158-169.	1.1	17
108	A System for Simple Real-Time Anastomotic Failure Detection and Wireless Blood Flow Monitoring in the Lower Limbs. IEEE Journal of Translational Engineering in Health and Medicine, 2016, 4, 1-15.	2.2	13

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109	Prediction of stride interval time series. , 2016, , .		0
110	Correlating Tri-Accelerometer Swallowing Vibrations and Hyoid Bone Movement in Patients With Dysphagia. , 2016, , .		5
111	A statistical analysis of cervical auscultation signals from adults with unsafe airway protection. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 7.	2.4	26
112	Cognitive tasks and cerebral blood flow through anterior cerebral arteries: a study via functional transcranial Doppler ultrasound recordings. BMC Medical Imaging, 2016, 16, 22.	1.4	11
113	Extraction of Stride Events From Gait Accelerometry During Treadmill Walking. IEEE Journal of Translational Engineering in Health and Medicine, 2016, 4, 1-11.	2.2	58
114	A matched dual-tree wavelet denoising for tri-axial swallowing vibrations. Biomedical Signal Processing and Control, 2016, 27, 112-121.	3.5	9
115	Characterizing functional connectivity patterns during saliva swallows in different head positions. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 61.	2.4	8
116	Cognitive tasks during walking affect cerebral blood flow signal features in middle cerebral arteries and their correlation to gait characteristics. Behavioral and Brain Functions, 2015, 11, 29.	1.4	11
117	The Development of a Wireless Implantable Blood Flow Monitor. Plastic and Reconstructive Surgery, 2015, 136, 199-203.	0.7	16
118	Dysphagia Screening: Contributions of Cervical Auscultation Signals and Modern Signal-Processing Techniques. IEEE Transactions on Human-Machine Systems, 2015, 45, 465-477.	2.5	56
119	Discrete prolate spheroidal sequence based filter banks for the analysis of nonstationary signals. , 2015, , .		0
120	Characteristics of Dry Chin-Tuck Swallowing Vibrations and Sounds. IEEE Transactions on Biomedical Engineering, 2015, 62, 2456-2464.	2.5	14
121	Decoding human swallowing via electroencephalography: a state-of-the-art review. Journal of Neural Engineering, 2015, 12, 051001.	1.8	33
122	Menopausal hot flashes and the default mode network. Fertility and Sterility, 2015, 103, 1572-1578.e1.	0.5	27
123	A comparative analysis of DBSCAN, K-means, and quadratic variation algorithms for automatic identification of swallows from swallowing accelerometry signals. Computers in Biology and Medicine, 2015, 59, 10-18.	3.9	58
124	Understanding the effects of pre-processing on extracted signal features from gait accelerometry signals. Computers in Biology and Medicine, 2015, 62, 164-174.	3.9	22
125	A comparative analysis of swallowing accelerometry and sounds during saliva swallows. BioMedical Engineering OnLine, 2015, 14, 3.	1.3	49
126	Rationale, development, and implementation of the Electrocardiographic Methods for the Prehospital Identification of Non-ST Elevation Myocardial Infarction Events (EMPIRE). Journal of Electrocardiology, 2015, 48, 921-926.	0.4	26

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127	A cerebral blood flow evaluation during cognitive tasks following a cervical spinal cord injury: a case study using transcranial Doppler recordings. Cognitive Neurodynamics, 2015, 9, 615-626.	2.3	8
128	Comparative analysis of compressive sensing approaches for recovery of missing samples in implantable wireless Doppler device. IET Signal Processing, 2014, 8, 230-238.	0.9	13
129	Understanding differences between healthy swallows and penetration-aspiration swallows via compressive sensing of tri-axial swallowing accelerometry signals. , 2014, 9190, 91090M.		5
130	An investigation of fMRI time series stationarity during motor sequence learning foot tapping tasks. Journal of Neuroscience Methods, 2014, 227, 75-82.	1.3	9
131	An analysis of cerebral blood flow from middle cerebral arteries during cognitive tasks via functional transcranial Doppler recordings. Neuroscience Research, 2014, 84, 19-26.	1.0	10
132	A Comprehensive Assessment of Gait Accelerometry Signals in Time, Frequency and Time-Frequency Domains. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 603-612.	2.7	131
133	Adapt current tools for handling big data. Nature, 2014, 507, 306-306.	13.7	15
134	A comparative analysis of spectral exponent estimation techniques for 1/fî² processes with applications to the analysis of stride interval time series. Journal of Neuroscience Methods, 2014, 222, 118-130.	1.3	25
135	Asynchronous processing of sparse signals. IET Signal Processing, 2014, 8, 257-266.	0.9	1
136	Motor imagery of gait: a new way to detect mild cognitive impairment?. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 66.	2.4	25
137	A Pediatric Correlational Study of Stride Interval Dynamics, Energy Expenditure and Activity Level. Pediatric Exercise Science, 2014, 26, 242-249.	0.5	0
138	Wireless Communication in Oil and Gas Wells. Energy Technology, 2014, 2, 996-1005.	1.8	35
139	Asynchronous signal-dependent non-uniform sampler. , 2014, , .		0
140	Carbon Nanotube Chemiresistor for Wireless pH Sensing. Scientific Reports, 2014, 4, 4468.	1.6	95
141	Motor Phenotype of Decline in Cognitive Performance among Community-Dwellers without Dementia: Population-Based Study and Meta-Analysis. PLoS ONE, 2014, 9, e99318.	1.1	64
142	Noninvasive Detection of Thin-Liquid Aspiration Using Dual-Axis Swallowing Accelerometry. Dysphagia, 2013, 28, 105-112.	1.0	37
143	Innovation and Translation Efforts in Wireless Medical Connectivity, Telemedicine and eMedicine: A Story from the RFID Center of Excellence at the University of Pittsburgh. Annals of Biomedical Engineering, 2013, 41, 1913-1925.	1.3	8
144	Spinal cord injury models in non human primates: Are lesions created by sharp instruments relevant to human injuries?. Medical Hypotheses, 2013, 81, 747-748.	0.8	16

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145	Necessity of noise in physiology and medicine. Computer Methods and Programs in Biomedicine, 2013, 111, 459-470.	2.6	83
146	Assessment of Resting-State Blood Flow Through Anterior Cerebral Arteries Using Trans-cranial Doppler Recordings. Ultrasound in Medicine and Biology, 2013, 39, 2285-2294.	0.7	3
147	Baseline characteristics of cervical auscultation signals during various head maneuvers. Computers in Biology and Medicine, 2013, 43, 2014-2020.	3.9	8
148	The impact of the internet of Things on implanted medical devices including pacemakers, and ICDs. , 2013, , .		9
149	The effects of increased fluid viscosity on swallowing sounds in healthy adults. BioMedical Engineering OnLine, 2013, 12, 90.	1.3	26
150	Classification of Penetration--Aspiration Versus Healthy Swallows Using Dual-Axis Swallowing Accelerometry Signals in Dysphagic Subjects. IEEE Transactions on Biomedical Engineering, 2013, 60, 1859-1866.	2.5	31
151	A compressive sampling approach for brain-machine interfaces based on transcranial Doppler sonography: A case study of resting-state maximal cerebral blood velocity signals. , 2013, , .		0
152	The effects of listening to music or viewing television on human gait. Computers in Biology and Medicine, 2013, 43, 1497-1501.	3.9	10
153	A scaling exponent-based detector of chaos in oscillatory circuits. Physica D: Nonlinear Phenomena, 2013, 242, 67-73.	1.3	5
154	Asynchronous Representation and Processing of Nonstationary Signals : A Time-Frequency Framework. IEEE Signal Processing Magazine, 2013, 30, 42-52.	4.6	17
155	The UHF Gen 2 RFID System for transcutaenous operation for orthopedic implants. , 2013, , .		6
156	Acceleration-based gait analysis: accelerating mobility assessment in older adults. Aging Health, 2013, 9, 465-467.	0.3	4
157	An Analysis of Resting-State Functional Transcranial Doppler Recordings from Middle Cerebral Arteries. PLoS ONE, 2013, 8, e55405.	1.1	14
158	A Study of Brain Networks Associated with Swallowing Using Graph-Theoretical Approaches. PLoS ONE, 2013, 8, e73577.	1.1	15
159	Compressive asynchronous decomposition of heart sounds. , 2012, , .		5
160	Recovering heart sounds from sparse samples. , 2012, , .		5
161	Visualization of Trunk Muscle Synergies During Sitting Perturbations Using Self-Organizing Maps (SOM). IEEE Transactions on Biomedical Engineering, 2012, 59, 2516-2523.	2.5	24
162	Towards increased data transmission rate for a three-class metabolic brainâ€“computer interface based on transcranial Doppler ultrasound. Neuroscience Letters, 2012, 528, 99-103.	1.0	13

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163	A unified approach for the estimation of instantaneous frequency and its derivatives for non-stationary signals analysis. , 2012, , .		3
164	Compressive sampling of swallowing accelerometry signals using time-frequency dictionaries based on modulated discrete prolate spheroidal sequences. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	40
165	Quantitative classification of pediatric swallowing through accelerometry. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 34.	2.4	21
166	Multimedia Signals and Systems. , 2012, , .		72
167	A Method for Removal of Low Frequency Components Associated with Head Movements from Dual-Axis Swallowing Accelerometry Signals. PLoS ONE, 2012, 7, e33464.	1.1	25
168	An investigation of stride interval stationarity while listening to music or viewing television. Human Movement Science, 2012, 31, 695-706.	0.6	11
169	The Effects of Rhythmic Sensory Cues on the Temporal Dynamics of Human Gait. PLoS ONE, 2012, 7, e43104.	1.1	84
170	An asynchronous scale decomposition for biomedical signals. , 2011, , .		2
171	Mean Square Error Estimation in Thresholding. IEEE Signal Processing Letters, 2011, 18, 103-106.	2.1	5
172	A Brain-Computer Interface Based on Bilateral Transcranial Doppler Ultrasound. PLoS ONE, 2011, 6, e24170.	1.1	34
173	Scaling analysis of baseline dual-axis cervical accelerometry signals. Computer Methods and Programs in Biomedicine, 2011, 103, 113-120.	2.6	5
174	Automatic discrimination between safe and unsafe swallowing using a reputation-based classifier. BioMedical Engineering OnLine, 2011, 10, 100.	1.3	24
175	Fractional Fourier transform as a signal processing tool: An overview of recent developments. Signal Processing, 2011, 91, 1351-1369.	2.1	298
176	Adhesion Molecules, Altered Vasoreactivity, and Brain Atrophy in Type 2 Diabetes. Diabetes Care, 2011, 34, 2438-2441.	4.3	69
177	Time-Frequency Analysis and Hermite Projection Method Applied to Swallowing Accelerometry Signals. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	17
178	Baseline Characteristics of Dual-Axis Cervical Accelerometry Signals. Annals of Biomedical Engineering, 2010, 38, 1048-1059.	1.3	35
179	The effects of head movement on dual-axis cervical accelerometry signals. BMC Research Notes, 2010, 3, 269.	0.6	27
180	Investigating the correlation between paediatric stride interval persistence and gross energy expenditure. BMC Research Notes, 2010, 3, 47.	0.6	1

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181	An investigation of stride interval stationarity in a paediatric population. Human Movement Science, 2010, 29, 125-136.	0.6	9
182	Measures of dynamic stability: Detecting differences between walking overground and on a compliant surface. Human Movement Science, 2010, 29, 977-986.	0.6	60
183	The effect of treadmill walking on the stride interval dynamics of children. Human Movement Science, 2010, 29, 987-998.	0.6	9
184	Vocalization removal for improved automatic segmentation of dual-axis swallowing accelerometry signals. Medical Engineering and Physics, 2010, 32, 668-672.	0.8	15
185	Understanding the statistical persistence of dual-axis swallowing accelerometry signals. Computers in Biology and Medicine, 2010, 40, 839-844.	3.9	7
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