

Ervin Sejdic

List of Publications by Year in descending order

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208
papers

5,944
citations

109137

35
h-index

128067

60
g-index

209
all docs

209
docs citations

209
times ranked

6037
citing authors

#	ARTICLE	IF	CITATIONS
1	Timeâ€“frequency feature representation using energy concentration: An overview of recent advances. , 2009, 19, 153-183.		583
2	Fractional Fourier transform as a signal processing tool: An overview of recent developments. Signal Processing, 2011, 91, 1351-1369.	2.1	298
3	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
4	Association of Dual-Task Gait With Incident Dementia in Mild Cognitive Impairment. JAMA Neurology, 2017, 74, 857.	4.5	263
5	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
6	Radiological images and machine learning: Trends, perspectives, and prospects. Computers in Biology and Medicine, 2019, 108, 354-370.	3.9	109
7	Machine learning-based prediction of acute coronary syndrome using only the pre-hospital 12-lead electrocardiogram. Nature Communications, 2020, 11, 3966.	5.8	102
8	Adaptive Transcutaneous Power Transfer to Implantable Devices: A State of the Art Review. Sensors, 2016, 16, 393.	2.1	97
9	Carbon Nanotube Chemiresistor for Wireless pH Sensing. Scientific Reports, 2014, 4, 4468.	1.6	95
10	An empirical examination of detrended fluctuation analysis for gait data. Gait and Posture, 2010, 31, 336-340.	0.6	93
11	Frequency-based window width optimization for -transform. AEU - International Journal of Electronics and Communications, 2008, 62, 245-250.	1.7	92
12	The Effects of Rhythmic Sensory Cues on the Temporal Dynamics of Human Gait. PLoS ONE, 2012, 7, e43104.	1.1	84
13	Necessity of noise in physiology and medicine. Computer Methods and Programs in Biomedicine, 2013, 111, 459-470.	2.6	83
14	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
15	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
16	A Window Width Optimized S-Transform. Eurasip Journal on Advances in Signal Processing, 2007, 2008, 1.	1.0	77
17	Compressive sensing meets timeâ€“frequency: An overview of recent advances in timeâ€“frequency processing of sparse signals. , 2018, 77, 22-35.		75
18	Multimedia Signals and Systems. , 2012, , .		72

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19	Adhesion Molecules, Altered Vasoreactivity, and Brain Atrophy in Type 2 Diabetes. <i>Diabetes Care</i> , 2011, 34, 2438-2441.	4.3	69
20	A telehealth system for automated diagnosis of asthma and chronic obstructive pulmonary disease. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2018, 25, 1213-1217.	2.2	67
21	Motor Phenotype of Decline in Cognitive Performance among Community-Dwellers without Dementia: Population-Based Study and Meta-Analysis. <i>PLoS ONE</i> , 2014, 9, e99318.	1.1	64
22	Quantitative Performance Analysis of Scalogram as Instantaneous Frequency Estimator. <i>IEEE Transactions on Signal Processing</i> , 2008, 56, 3837-3845.	3.2	63
23	Measures of dynamic stability: Detecting differences between walking overground and on a compliant surface. <i>Human Movement Science</i> , 2010, 29, 977-986.	0.6	60
24	A comparative analysis of DBSCAN, K-means, and quadratic variation algorithms for automatic identification of swallows from swallowing accelerometry signals. <i>Computers in Biology and Medicine</i> , 2015, 59, 10-18.	3.9	58
25	Extraction of Stride Events From Gait Accelerometry During Treadmill Walking. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2016, 4, 1-11.	2.2	58
26	Dysphagia Screening: Contributions of Cervical Auscultation Signals and Modern Signal-Processing Techniques. <i>IEEE Transactions on Human-Machine Systems</i> , 2015, 45, 465-477.	2.5	56
27	Segmentation of Dual-Axis Swallowing Accelerometry Signals in Healthy Subjects With Analysis of Anthropometric Effects on Duration of Swallowing Activities. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 1090-1097.	2.5	55
28	Understanding the Basis of Graph Signal Processing via an Intuitive Example-Driven Approach [Lecture Notes]. <i>IEEE Signal Processing Magazine</i> , 2019, 36, 133-145.	4.6	53
29	Effects of liquid stimuli on dual-axis swallowing accelerometry signals in a healthy population. <i>BioMedical Engineering OnLine</i> , 2010, 9, 7.	1.3	52
30	New horizons in falls prevention and management for older adults: a global initiative. <i>Age and Ageing</i> , 2021, 50, 1499-1507.	0.7	50
31	A comparative analysis of swallowing accelerometry and sounds during saliva swallows. <i>BioMedical Engineering OnLine</i> , 2015, 14, 3.	1.3	49
32	A Tutorial on Sparse Signal Reconstruction and Its Applications in Signal Processing. <i>Circuits, Systems, and Signal Processing</i> , 2019, 38, 1206-1263.	1.2	48
33	Testing of Anesthesia Machines and Defibrillators in Healthcare Institutions. <i>Journal of Medical Systems</i> , 2017, 41, 133.	2.2	47
34	Vertex-Frequency Analysis: A Way to Localize Graph Spectral Components [Lecture Notes]. <i>IEEE Signal Processing Magazine</i> , 2017, 34, 176-182.	4.6	46
35	Tetrahydrocannabinol Detection Using Semiconductor-Enriched Single-Walled Carbon Nanotube Chemiresistors. <i>ACS Sensors</i> , 2019, 4, 2084-2093.	4.0	46
36	Automatic hyoid bone detection in fluoroscopic images using deep learning. <i>Scientific Reports</i> , 2018, 8, 12310.	1.6	44

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37	Instantaneous Frequency Estimation Using the $\{m S\}$ -Transform. IEEE Signal Processing Letters, 2008, 15, 309-312.	2.1	40
38	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
39	A procedure for denoising dual-axis swallowing accelerometry signals. Physiological Measurement, 2010, 31, N1-N9.	1.2	37
40	Noninvasive Detection of Thin-Liquid Aspiration Using Dual-Axis Swallowing Accelerometry. Dysphagia, 2013, 28, 105-112.	1.0	37
41	Non-invasive identification of swallows via deep learning in high resolution cervical auscultation recordings. Scientific Reports, 2020, 10, 8704.	1.6	37
42	Fault diagnosis in machine tools using selective regional correlation. Mechanical Systems and Signal Processing, 2006, 20, 1221-1238.	4.4	36
43	Baseline Characteristics of Dual-Axis Cervical Accelerometry Signals. Annals of Biomedical Engineering, 2010, 38, 1048-1059.	1.3	35
44	Wireless Communication in Oil and Gas Wells. Energy Technology, 2014, 2, 996-1005.	1.8	35
45	Motor sequence learning-induced neural efficiency in functional brain connectivity. Behavioural Brain Research, 2017, 319, 87-95.	1.2	35
46	An Online Swallow Detection Algorithm Based on the Quadratic Variation of Dual-Axis Accelerometry. IEEE Transactions on Signal Processing, 2010, 58, 3352-3359.	3.2	34
47	A Brain-Computer Interface Based on Bilateral Transcranial Doppler Ultrasound. PLoS ONE, 2011, 6, e24170.	1.1	34
48	Decoding human swallowing via electroencephalography: a state-of-the-art review. Journal of Neural Engineering, 2015, 12, 051001.	1.8	33
49	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
50	Neck sensor-supported hyoid bone movement tracking during swallowing. Royal Society Open Science, 2019, 6, 181982.	1.1	30
51	Selective Regional Correlation for Pattern Recognition. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 82-93.	3.4	29
52	Classifying smoking urges via machine learning. Computer Methods and Programs in Biomedicine, 2016, 137, 203-213.	2.6	29
53	Multi-Disciplinary Challenges in Tissue Modeling for Wireless Electromagnetic Powering: A Review. IEEE Sensors Journal, 2017, 17, 6498-6509.	2.4	29
54	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

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55	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
56	Introduction to Graph Signal Processing. Signals and Communication Technology, 2019, , 3-108.	0.4	28
57	The effects of head movement on dual-axis cervical accelerometry signals. BMC Research Notes, 2010, 3, 269.	0.6	27
58	Menopausal hot flashes and the default mode network. Fertility and Sterility, 2015, 103, 1572-1578.e1.	0.5	27
59	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
60	The effects of increased fluid viscosity on swallowing sounds in healthy adults. BioMedical Engineering OnLine, 2013, 12, 90.	1.3	26
61	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
62	A statistical analysis of cervical auscultation signals from adults with unsafe airway protection. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 7.	2.4	26
63	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
64	Dysphagia and its effects on swallowing sounds and vibrations in adults. BioMedical Engineering OnLine, 2018, 17, 69.	1.3	26
65	The effect of accelerometer location on the classification of single-site forearm mechanomyograms. BioMedical Engineering OnLine, 2010, 9, 23.	1.3	25
66	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
67	A comparative analysis of spectral exponent estimation techniques for $1/f^2$ processes with applications to the analysis of stride interval time series. Journal of Neuroscience Methods, 2014, 222, 118-130.	1.3	25
68	Motor imagery of gait: a new way to detect mild cognitive impairment?. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 66.	2.4	25
69	Deep learning for classification of normal swallows in adults. Neurocomputing, 2018, 285, 1-9.	3.5	25
70	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
71	Tracking Hyoid Bone Displacement During Swallowing Without Videofluoroscopy Using Machine Learning of Vibratory Signals. Dysphagia, 2021, 36, 259-269.	1.0	25
72	Automatic discrimination between safe and unsafe swallowing using a reputation-based classifier. BioMedical Engineering OnLine, 2011, 10, 100.	1.3	24

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73	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
74	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
75	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
76	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
77	Breath Acetone Sensing Based on Single-Walled Carbon Nanotube-Titanium Dioxide Hybrids Enabled by a Custom-Built Dehumidifier. ACS Sensors, 2021, 6, 871-880.	4.0	22
78	Quantitative classification of pediatric swallowing through accelerometry. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 34.	2.4	21
79	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
80	Anatomical Directional Dissimilarities in Tri-axial Swallowing Accelerometry Signals. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 447-458.	2.7	20
81	The Prediction of Risk of Penetration-Aspiration Via Hyoid Bone Displacement Features. Dysphagia, 2020, 35, 66-72.	1.0	20
82	Vertex-frequency graph signal processing: A comprehensive review. , 2020, 107, 102802.		20
83	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
84	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
85	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
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	Time-Frequency Analysis and Hermite Projection Method Applied to Swallowing Accelerometry Signals. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	17
88	Asynchronous Representation and Processing of Nonstationary Signals : A Time-Frequency Framework. IEEE Signal Processing Magazine, 2013, 30, 42-52.	4.6	17
89	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
90	A fast algorithm for vertex-frequency representations of signals on graphs. Signal Processing, 2017, 131, 483-491.	2.1	17

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91	A Preliminary Investigation of Whether HRCA Signals Can Differentiate Between Swallows from Healthy People and Swallows from People with Neurodegenerative Diseases. <i>Dysphagia</i> , 2021, 36, 635-643.	1.0	17
92	Estimation of laryngeal closure duration during swallowing without invasive X-rays. <i>Future Generation Computer Systems</i> , 2021, 115, 610-618.	4.9	17
93	A Review of Recurrent Neural Network-Based Methods in Computational Physiology. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2023, 34, 6983-7003.	7.2	17
94	Spinal cord injury models in non human primates: Are lesions created by sharp instruments relevant to human injuries?. <i>Medical Hypotheses</i> , 2013, 81, 747-748.	0.8	16
95	The Development of a Wireless Implantable Blood Flow Monitor. <i>Plastic and Reconstructive Surgery</i> , 2015, 136, 199-203.	0.7	16
96	A comparison between swallowing sounds and vibrations in patients with dysphagia. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 144, 179-187.	2.6	16
97	Channel estimation using DPSS based frames. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008, , .	1.8	15
98	Vocalization removal for improved automatic segmentation of dual-axis swallowing accelerometry signals. <i>Medical Engineering and Physics</i> , 2010, 32, 668-672.	0.8	15
99	Adapt current tools for handling big data. <i>Nature</i> , 2014, 507, 306-306.	13.7	15
100	A Study of Brain Networks Associated with Swallowing Using Graph-Theoretical Approaches. <i>PLoS ONE</i> , 2013, 8, e73577.	1.1	15
101	A cardiorespiratory classifier of voluntary and involuntary electrodermal activity. <i>BioMedical Engineering OnLine</i> , 2010, 9, 11.	1.3	14
102	Characteristics of Dry Chin-Tuck Swallowing Vibrations and Sounds. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 2456-2464.	2.5	14
103	Analysis of the pen pressure and grip force signal during basic drawing tasks: The timing and speed changes impact drawing characteristics. <i>Computers in Biology and Medicine</i> , 2017, 87, 124-131.	3.9	14
104	Local Smoothness of Graph Signals. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-14.	0.6	14
105	A novel motor imagery hybrid brain computer interface using EEG and functional transcranial Doppler ultrasound. <i>Journal of Neuroscience Methods</i> , 2019, 313, 44-53.	1.3	14
106	Non-negative Matrix Factorization Reveals Resting-State Cortical Alpha Network Abnormalities in the First-Episode Schizophrenia Spectrum. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 961-970.	1.1	14
107	How Closely do Machine Ratings of Duration of UES Opening During Videofluoroscopy Approximate Clinician Ratings Using Temporal Kinematic Analyses and the MBSimP?. <i>Dysphagia</i> , 2021, 36, 707-718.	1.0	14
108	An Analysis of Resting-State Functional Transcranial Doppler Recordings from Middle Cerebral Arteries. <i>PLoS ONE</i> , 2013, 8, e55405.	1.1	14

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109	Towards increased data transmission rate for a three-class metabolic brain-computer interface based on transcranial Doppler ultrasound. <i>Neuroscience Letters</i> , 2012, 528, 99-103.	1.0	13
110	Comparative analysis of compressive sensing approaches for recovery of missing samples in implantable wireless Doppler device. <i>IET Signal Processing</i> , 2014, 8, 230-238.	0.9	13
111	A System for Simple Real-Time Anastomotic Failure Detection and Wireless Blood Flow Monitoring in the Lower Limbs. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2016, 4, 1-15.	2.2	13
112	Totally Implantable Wireless Ultrasonic Doppler Blood Flowmeters: Toward Accurate Miniaturized Chronic Monitors. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 561-578.	0.7	13
113	Vertex-Frequency Energy Distributions. <i>IEEE Signal Processing Letters</i> , 2018, 25, 358-362.	2.1	13
114	Influence of attention and bolus volume on brain organization during swallowing. <i>Brain Structure and Function</i> , 2018, 223, 955-964.	1.2	13
115	A brain-computer interface based on functional transcranial doppler ultrasound using wavelet transform and support vector machines. <i>Journal of Neuroscience Methods</i> , 2018, 293, 174-182.	1.3	13
116	Silent Aspiration Detection in High Resolution Cervical Auscultations. , 2019, , .		13
117	Transfer Learning for a Multimodal Hybrid EEG-fTCD Brain-Computer Interface. , 2019, 3, 1-4.		13
118	Differences in brain networks during consecutive swallows detected using an optimized vertex-frequency algorithm. <i>Neuroscience</i> , 2017, 344, 113-123.	1.1	12
119	High-Resolution Cervical Auscultation and Data Science: New Tools to Address an Old Problem. <i>American Journal of Speech-Language Pathology</i> , 2020, 29, 992-1000.	0.9	12
120	An investigation of stride interval stationarity while listening to music or viewing television. <i>Human Movement Science</i> , 2012, 31, 695-706.	0.6	11
121	Cognitive tasks during walking affect cerebral blood flow signal features in middle cerebral arteries and their correlation to gait characteristics. <i>Behavioral and Brain Functions</i> , 2015, 11, 29.	1.4	11
122	Cognitive tasks and cerebral blood flow through anterior cerebral arteries: a study via functional transcranial Doppler ultrasound recordings. <i>BMC Medical Imaging</i> , 2016, 16, 22.	1.4	11
123	Simulating, Modeling, and Sensing Variable Tissues for Wireless Implantable Medical Devices. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018, 66, 3547-3556.	2.9	11
124	Mobility of Older Adults: Gait Quality Measures Are Associated With Life-Space Assessment Scores. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, e299-e306.	1.7	11
125	S-Transform with Frequency Dependent Kaiser Window. , 2007, , .		10
126	The effects of listening to music or viewing television on human gait. <i>Computers in Biology and Medicine</i> , 2013, 43, 1497-1501.	3.9	10

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127	An analysis of cerebral blood flow from middle cerebral arteries during cognitive tasks via functional transcranial Doppler recordings. <i>Neuroscience Research</i> , 2014, 84, 19-26.	1.0	10
128	Towards optimal visual presentation design for hybrid EEGâ€”fTCD brainâ€”computer interfaces. <i>Journal of Neural Engineering</i> , 2018, 15, 056019.	1.8	10
129	A Preliminary Study Using Smartphone Accelerometers to Sense Gait Impairments Due to Alcohol Intoxication. <i>Journal of Studies on Alcohol and Drugs</i> , 2020, 81, 505-510.	0.6	10
130	Automatic Estimation of Laryngeal Vestibule Closure Duration Using High-Resolution Cervical Auscultation Signals. <i>Perspectives of the ASHA Special Interest Groups</i> , 2020, 5, 1647-1656.	0.4	10
131	Extraction of average neck flexion angle during swallowing in neutral and chin-tuck positions. <i>BioMedical Engineering OnLine</i> , 2009, 8, 25.	1.3	9
132	An investigation of stride interval stationarity in a paediatric population. <i>Human Movement Science</i> , 2010, 29, 125-136.	0.6	9
133	The effect of treadmill walking on the stride interval dynamics of children. <i>Human Movement Science</i> , 2010, 29, 987-998.	0.6	9
134	The impact of the internet of Things on implanted medical devices including pacemakers, and ICDs. , 2013, , .		9
135	An investigation of fMRI time series stationarity during motor sequence learning foot tapping tasks. <i>Journal of Neuroscience Methods</i> , 2014, 227, 75-82.	1.3	9
136	A matched dual-tree wavelet denoising for tri-axial swallowing vibrations. <i>Biomedical Signal Processing and Control</i> , 2016, 27, 112-121.	3.5	9
137	â€œYou can tell by the way I use my walk.â€ Predicting the presence of cognitive load with gait measurements. <i>BioMedical Engineering OnLine</i> , 2018, 17, 122.	1.3	9
138	Reduced Interference Vertex-Frequency Distributions. <i>IEEE Signal Processing Letters</i> , 2018, 25, 1393-1397.	2.1	9
139	Innovation and Translation Efforts in Wireless Medical Connectivity, Telemedicine and eMedicine: A Story from the RFID Center of Excellence at the University of Pittsburgh. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1913-1925.	1.3	8
140	Baseline characteristics of cervical auscultation signals during various head maneuvers. <i>Computers in Biology and Medicine</i> , 2013, 43, 2014-2020.	3.9	8
141	Characterizing functional connectivity patterns during saliva swallows in different head positions. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 61.	2.4	8
142	A cerebral blood flow evaluation during cognitive tasks following a cervical spinal cord injury: a case study using transcranial Doppler recordings. <i>Cognitive Neurodynamics</i> , 2015, 9, 615-626.	2.3	8
143	Automated Bolus Detection in Videofluoroscopic Images of Swallowing Using Mask-RCNN. , 2020, 2020, 2173-2177.		8
144	Adaptive segmentation and normalization of breathing acoustic data of subjects with obstructive sleep apnea. , 2009, , .		7

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145	Understanding the statistical persistence of dual-axis swallowing accelerometry signals. <i>Computers in Biology and Medicine</i> , 2010, 40, 839-844.	3.9	7
146	Exploring the complex interactions of baseline patient factors to improve nursing triage of acute coronary syndrome. <i>Research in Nursing and Health</i> , 2020, 43, 356-364.	0.8	7
147	Facilitators and barriers to real-life mobility in community-dwelling older adults: a narrative review of accelerometry- and global positioning system-based studies. <i>Aging Clinical and Experimental Research</i> , 2022, 34, 1733-1746.	1.4	7
148	Application of Multitaper Analysis to wireless communications problems. , 2008, , .		6
149	The UHF Gen 2 RFID System for transcutaneous operation for orthopedic implants. , 2013, , .		6
150	EEG-fTCD hybrid brain-computer interface using template matching and wavelet decomposition. <i>Journal of Neural Engineering</i> , 2019, 16, 036014.	1.8	6
151	A generalized equation approach for hyoid bone displacement and penetration-aspiration scale analysis. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	6
152	Characterizing Swallows From People With Neurodegenerative Diseases Using High-Resolution Cervical Auscultation Signals and Temporal and Spatial Swallow Kinematic Measurements. <i>Journal of Speech, Language, and Hearing Research</i> , 2021, 64, 3416-3431.	0.7	6
153	Automatic annotation of cervical vertebrae in videofluoroscopy images via deep learning. <i>Medical Image Analysis</i> , 2021, 74, 102218.	7.0	6
154	Mean Square Error Estimation in Thresholding. <i>IEEE Signal Processing Letters</i> , 2011, 18, 103-106.	2.1	5
155	Scaling analysis of baseline dual-axis cervical accelerometry signals. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 103, 113-120.	2.6	5
156	Compressive asynchronous decomposition of heart sounds. , 2012, , .		5
157	Recovering heart sounds from sparse samples. , 2012, , .		5
158	A scaling exponent-based detector of chaos in oscillatory circuits. <i>Physica D: Nonlinear Phenomena</i> , 2013, 242, 67-73.	1.3	5
159	Understanding differences between healthy swallows and penetration-aspiration swallows via compressive sensing of tri-axial swallowing accelerometry signals. , 2014, 9190, 91090M.		5
160	Correlating Tri-Accelerometer Swallowing Vibrations and Hyoid Bone Movement in Patients With Dysphagia. , 2016, , .		5
161	Anterior-posterior distension of maximal upper esophageal sphincter opening is correlated with high-resolution cervical auscultation signal features. <i>Physiological Measurement</i> , 2021, 42, 035002.	1.2	5
162	Establishing Reference Values for Temporal Kinematic Swallow Events Across the Lifespan in Healthy Community Dwelling Adults Using High-Resolution Cervical Auscultation. <i>Dysphagia</i> , 2022, 37, 664-675.	1.0	5

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163	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
164	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
165	A new approach for the reassignment of time-frequency representations. , 2009, , .		4
166	Acceleration-based gait analysis: accelerating mobility assessment in older adults. Aging Health, 2013, 9, 465-467.	0.3	4
167	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
168	Sparse recovery of time-frequency representations via recurrent neural networks. , 2017, , .		4
169	Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. IEEE Transactions on Biomedical Engineering, 2018, 65, 2290-2297.	2.5	4
170	ARTIFICIAL INTELLIGENCE AND DYSPHAGIA: NOVEL SOLUTIONS TO OLD PROBLEMS. Arquivos De Gastroenterologia, 2020, 57, 343-346.	0.3	4
171	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
172	Cervical Vertebral Height Approximates Hyoid Displacement in Videofluoroscopic Images of Healthy Adults. Dysphagia, 2022, 37, 1689-1696.	1.0	4
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