

Agnese Sbröllini

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

600
citations

758635

12
h-index

752256

20
g-index

66
all docs

66
docs citations

66
times ranked

534
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial Neural Network for Atrial Fibrillation Identification in Portable Devices. <i>Sensors</i> , 2020, 20, 3570.	2.1	48
2	Heart Rate Detection Using Microsoft Kinect: Validation and Comparison to Wearable Devices. <i>Sensors</i> , 2017, 17, 1776.	2.1	46
3	Noninvasive Fetal Electrocardiography Part I: Pan-Tompkins' Algorithm Adaptation to Fetal R-peak Identification. <i>Open Biomedical Engineering Journal</i> , 2017, 11, 17-24.	0.7	32
4	Serial electrocardiography to detect newly emerging or aggravating cardiac pathology: a deep-learning approach. <i>BioMedical Engineering OnLine</i> , 2019, 18, 15.	1.3	32
5	COVID-19 in Italy: Dataset of the Italian Civil Protection Department. <i>Data in Brief</i> , 2020, 30, 105526.	0.5	32
6	Segmented beat modulation method for electrocardiogram estimation from noisy recordings. <i>Medical Engineering and Physics</i> , 2016, 38, 560-568.	0.8	28
7	Noninvasive Fetal Electrocardiography Part II: Segmented-Beat Modulation Method for Signal Denoising. <i>Open Biomedical Engineering Journal</i> , 2017, 11, 25-35.	0.7	26
8	The role of central vision in posture: Postural sway adaptations in Stargardt patients. <i>Gait and Posture</i> , 2016, 43, 233-238.	0.6	25
9	eCTG: an automatic procedure to extract digital cardiocographic signals from digital images. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 156, 133-139.	2.6	21
10	CaRiSMA 1.0: Cardiac Risk Self-Monitoring Assessment. <i>The Open Sports Sciences Journal</i> , 2017, 10, 179-190.	0.2	21
11	CTG Analyzer: A graphical user interface for cardiocography. , 2017, 2017, 2606-2609.		20
12	Sport Database: Cardiorespiratory data acquired through wearable sensors while practicing sports. <i>Data in Brief</i> , 2019, 27, 104793.	0.5	18
13	Wavelet filtering of fetal phonocardiography: A comparative analysis. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 6034-6046.	1.0	18
14	Fetal Phonocardiogram Denoising by Wavelet Transformation: Robustness to Noise. , 0, , .		14
15	Digital cardiocography: What is the optimal sampling frequency?. <i>Biomedical Signal Processing and Control</i> , 2019, 51, 210-215.	3.5	12
16	Validation of the Heart:Rate Signal Provided by the Zephyr BioHarness 3.0. , 0, , .		12
17	Statistical baseline assessment in cardiocography. , 2017, 2017, 3166-3169.		9
18	Electrocardiogram Derived Respiratory Signal through the Segmented-Beat Modulation Method. , 2018, 2018, 5681-5684.		9

#	ARTICLE	IF	CITATIONS
19	An initial exploration of subtraction electrocardiography to detect myocardial ischemia in the prehospital setting. <i>Annals of Noninvasive Electrocardiology</i> , 2020, 25, e12722.	0.5	9
20	AdvFPCG-Delineator: Advanced delineator for fetal phonocardiography. <i>Biomedical Signal Processing and Control</i> , 2020, 61, 102021.	3.5	9
21	Annotation dataset of the cardiocotographic recordings constituting the "CTU-CHB intra-partum CTG database". <i>Data in Brief</i> , 2020, 31, 105690.	0.5	9
22	Evaluation of the low-frequency components in surface electromyography. , 2016, 2016, 3622-3625.		8
23	Automatic Identification and Classification of Fetal Heart-Rate Decelerations from Cardiotocographic Recordings. , 2018, 2018, 474-477.		8
24	Initial Investigation of Athletes'™ Electrocardiograms Acquired by Wearable Sensors during the Pre-exercise Phase. <i>Open Biomedical Engineering Journal</i> , 2021, 15, 37-44.	0.7	7
25	T-Wave Alternans Identification in Direct Fetal Electrocardiography. , 0, , .		6
26	PCG-Delineator: an Efficient Algorithm for Automatic Heart Sounds Detection in Fetal Phonocardiography. , 0, , .		6
27	Surface electromyography low-frequency content: Assessment in isometric conditions after electrocardiogram cancellation by the Segmented-Beat Modulation Method. <i>Informatics in Medicine Unlocked</i> , 2018, 13, 71-80.	1.9	6
28	Extended Segmented Beat Modulation Method for Cardiac Beat Classification and Electrocardiogram Denoising. <i>Electronics (Switzerland)</i> , 2020, 9, 1178.	1.8	6
29	Ensemble Empirical Mode Decomposition for Efficient R-Peak Detection in Electrocardiograms Acquired by Portable Sensors During Sport Activity. , 2021, , .		6
30	Relationship between Deceleration Areas in the Second Stage of Labor and Neonatal Acidemia. , 0, , .		6
31	Serial ECG Analysis: Absolute Rather Than Signed Changes in the Spatial QRS-T Angle Should Be Used to Detect Emerging Cardiac Pathology. , 0, , .		5
32	T-Wave Alternans in Partial Epileptic Patients. , 2018, , .		5
33	Automatic Identification of Atrial Fibrillation by Spectral Analysis of Fibrillatory Waves. , 0, , .		5
34	Classification of drug-induced hERG potassium-channel block from electrocardiographic T-wave features using artificial neural networks. <i>Annals of Noninvasive Electrocardiology</i> , 2019, 24, e12679.	0.5	5
35	Second Heart Sound Onset to Identify T-Wave Offset. , 2017, , .		4
36	Automatic T-Wave Alternans Identification in Indirect and Direct Fetal Electrocardiography. , 2018, 2018, 4852-4855.		4

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37	Simultaneously acquired data from contactless and wearable devices for direct and indirect heart-rate measurement. <i>Data in Brief</i> , 2019, 26, 104436.	0.5	4
38	Real-time smart monitoring system for atrial fibrillation pathology. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 4461-4469.	3.3	4
39	AThrlA: a New Adaptive Threshold Identification Algorithm for Electrocardiographic P Waves. , 0, , .		4
40	Estimation of Tidal Volume during Exercise Stress Test from Wearable-Device Measures of Heart Rate and Breathing Rate. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5441.	1.3	4
41	T-wave Alternans in Nonpathological Preterm Infants. <i>Annals of Noninvasive Electrocardiology</i> , 2020, 25, e12745.	0.5	3
42	Electrocardiographic Alternans: A New Approach. <i>IFMBE Proceedings</i> , 2020, , 159-166.	0.2	3
43	Association between Accelerations and Decelerations of Fetal Heart Rate. <i>IFMBE Proceedings</i> , 2018, , 1125-1128.	0.2	3
44	Separation of Superimposed Electrocardiographic and Electromyographic Signals. <i>IFMBE Proceedings</i> , 2018, , 518-521.	0.2	3
45	GPU-Based Segmented-Beat Modulation Method for Denoising Athlete Electrocardiograms During Training. , 0, , .		3
46	Spectral F-wave index for automatic identification of atrial fibrillation in very short electrocardiograms. <i>Biomedical Signal Processing and Control</i> , 2022, 71, 103210.	3.5	3
47	Repeated Structuring & Learning Procedure for Detection of Myocardial Ischemia: a Robustness Analysis. , 2021, 2021, 467-470.		3
48	Signal Processing for Athletic Cardiovascular Monitoring with Wearable Sensors: Fully Automatic Detection of Training Phases from Heart Rate Data. , 2021, , .		3
49	Overnight T-Wave Alternans in Sleep Apnea Patients. , 2017, , .		2
50	Progression towards Heart Failure after Myocardial Infarction Is Accompanied by a Change in the Spatial QRS-T Angle. , 0, , .		2
51	Quantification of Fetal ST-Segment Deviations. , 0, , .		2
52	TWA Simulator: a Graphical User Interface for T-wave Alternans. , 2018, , .		2
53	Self-Monitoring of Cardiac Risk while Running Around Ancona. , 2019, , .		2
54	Compressed Segmented Beat Modulation Method using Discrete Cosine Transform*. , 2019, 2019, 2273-2276.		2

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55	Electrocardiogram-Derived Respiratory Signal in Sleep Apnea by Segmented Beat Modulation Method. , 2019, , .		2
56	Postural data from Stargardt's syndrome patients. Data in Brief, 2020, 30, 105452.	0.5	2
57	Review on Cardiorespiratory Complications after SARS-CoV-2 Infection in Young Adult Healthy Athletes. International Journal of Environmental Research and Public Health, 2022, 19, 5680.	1.2	2
58	Extraction of Digital Cardiotocographic Signals from Digital Cardiotocographic Images: Robustness of eCTG Procedure. Electronics (Switzerland), 2019, 8, 1122.	1.8	1
59	Recurrence Quantification Analysis for Motion Artifacts in Wearable ECG Sensors. , 2019, , .		1
60	An innovative training based on robotics for older people with subacute stroke: study protocol for a randomized controlled trial. Trials, 2021, 22, 400.	0.7	1
61	Bradycardia Assessment in Preterm Infants. IFMBE Proceedings, 2020, , 100-107.	0.2	1
62	PCG-Decompositor: A New Method for Fetal Phonocardiogram Filtering Based on Wavelet Transform Multi-level Decomposition. IFMBE Proceedings, 2020, , 47-53.	0.2	1
63	Co-activation periods of gastrocnemius and vastus lateralis during walking evaluated by surface electromyography. , 2016, 2016, 3696-3699.		0
64	Adaptive bradycardia assessment in preterm infants. Biomedical Signal Processing and Control, 2021, 68, 102816.	3.5	0
65	Electrocardiogram-based index for the assessment of drug-induced hERG potassium channel block. Journal of Electrocardiology, 2021, 69S, 55-60.	0.4	0