

Micaela Morettini

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

648
citations

686830

13
h-index

794141

19
g-index

86
all docs

86
docs citations

86
times ranked

702
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Temporal Patterns of Glucagon and Its Relationships with Glucose and Insulin following Ingestion of Different Classes of Macronutrients. <i>Nutrients</i> , 2022, 14, 376.	1.7	6
3	Unraveling the Factors Determining Development of Type 2 Diabetes in Women With a History of Gestational Diabetes Mellitus Through Machine-Learning Techniques. <i>Frontiers in Physiology</i> , 2022, 13, 789219.	1.3	5
4	Review on Cardiorespiratory Complications after SARS-CoV-2 Infection in Young Adult Healthy Athletes. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 5680.	1.2	2
5	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
6	Mathematical Model of Glucagon Kinetics for the Assessment of Insulin-Mediated Glucagon Inhibition During an Oral Glucose Tolerance Test. <i>Frontiers in Endocrinology</i> , 2021, 12, 611147.	1.5	15
7	An innovative training based on robotics for older people with subacute stroke: study protocol for a randomized controlled trial. <i>Trials</i> , 2021, 22, 400.	0.7	1
8	Comparison of Software Packages for the Analysis of Continuous Glucose Monitoring Data. , 2021, , .		1
9	Ensemble Empirical Mode Decomposition for Efficient R-Peak Detection in Electrocardiograms Acquired by Portable Sensors During Sport Activity. , 2021, , .		6
10	A Preliminary Validation of a New Surgical Procedure for the Treatment of Primary Bladder Neck Obstruction Using a Computational Modeling Approach. <i>Bioengineering</i> , 2021, 8, 87.	1.6	4
11	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
12	Adaptive bradycardia assessment in preterm infants. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102816.	3.5	0
13	Hepatic and Extrahepatic Insulin Clearance in Mice with Double Deletion of Glucagon-Like Peptide-1 and Glucose-Dependent Insulinotropic Polypeptide Receptors. <i>Biomedicines</i> , 2021, 9, 973.	1.4	1
14	Electrocardiogram-based index for the assessment of drug-induced hERG potassium channel block. <i>Journal of Electrocardiology</i> , 2021, 69S, 55-60.	0.4	0
15	Repeated Structuring & Learning Procedure for Detection of Myocardial Ischemia: a Robustness Analysis. , 2021, 2021, 467-470.		3
16	Signal Processing for Athletic Cardiovascular Monitoring with Wearable Sensors: Fully Automatic Detection of Training Phases from Heart Rate Data. , 2021, , .		3
17	Extended Segmented Beat Modulation Method for Cardiac Beat Classification and Electrocardiogram Denoising. <i>Electronics (Switzerland)</i> , 2020, 9, 1178.	1.8	6
18	AdvFPCG-Delineator: Advanced delineator for fetal phonocardiography. <i>Biomedical Signal Processing and Control</i> , 2020, 61, 102021.	3.5	9

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19	Annotation dataset of the cardiotocographic recordings constituting the "CTU-CHB intra-partum CTG database". Data in Brief, 2020, 31, 105690.	0.5	9
20	Early temporal prediction of Type 2 Diabetes Risk Condition from a General Practitioner Electronic Health Record: A Multiple Instance Boosting Approach. Artificial Intelligence in Medicine, 2020, 105, 101847.	3.8	26
21	Artificial Neural Network for Atrial Fibrillation Identification in Portable Devices. Sensors, 2020, 20, 3570.	2.1	48
22	T-wave Alternans in Nonpathological Preterm Infants. Annals of Noninvasive Electrocardiology, 2020, 25, e12745.	0.5	3
23	Insulin clearance is altered in women with a history of gestational diabetes progressing to type 2 diabetes. Nutrition, Metabolism and Cardiovascular Diseases, 2020, 30, 1272-1280.	1.1	8
24	COVID-19 in Italy: Dataset of the Italian Civil Protection Department. Data in Brief, 2020, 30, 105526.	0.5	32
25	Bradycardia Assessment in Preterm Infants. IFMBE Proceedings, 2020, , 100-107.	0.2	1
26	Electrocardiographic Alternans: A New Approach. IFMBE Proceedings, 2020, , 159-166.	0.2	3
27	Former gestational diabetes: Mathematical modeling of intravenous glucose tolerance test for the assessment of insulin clearance and its determinants. Mathematical Biosciences and Engineering, 2020, 17, 1604-1615.	1.0	3
28	Model-Based Assessment of Sex Differences in Glucose Effectiveness and Its Components. IFMBE Proceedings, 2020, , 500-507.	0.2	0
29	PCG-Decompositor: A New Method for Fetal Phonocardiogram Filtering Based on Wavelet Transform Multi-level Decomposition. IFMBE Proceedings, 2020, , 47-53.	0.2	1
30	Glucose Effectiveness from Short Insulin-Modified IVGTT and Its Application to the Study of Women with Previous Gestational Diabetes Mellitus. Diabetes and Metabolism Journal, 2020, 44, 286.	1.8	5
31	TyG-er: An ensemble Regression Forest approach for identification of clinical factors related to insulin resistance condition using Electronic Health Records. Computers in Biology and Medicine, 2019, 112, 103358.	3.9	23
32	Classification of drug-induced hERG potassium channel block from electrocardiographic T-wave features using artificial neural networks. Annals of Noninvasive Electrocardiology, 2019, 24, e12679.	0.5	5
33	Dofetilide-Induced Microvolt T-Wave Alternans. , 2019, 2019, 95-98.		1
34	Simultaneously acquired data from contactless and wearable devices for direct and indirect heart-rate measurement. Data in Brief, 2019, 26, 104436.	0.5	4
35	Digital cardiotocography: What is the optimal sampling frequency?. Biomedical Signal Processing and Control, 2019, 51, 210-215.	3.5	12
36	Glucose effectiveness and its components in relation to body mass index. European Journal of Clinical Investigation, 2019, 49, e13099.	1.7	11

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37	A dataset for the development and optimization of fall detection algorithms based on wearable sensors. <i>Data in Brief</i> , 2019, 23, 103839.	0.5	22
38	Extraction of Digital Cardiocotographic Signals from Digital Cardiocotographic Images: Robustness of eCTG Procedure. <i>Electronics (Switzerland)</i> , 2019, 8, 1122.	1.8	1
39	Self-Monitoring of Cardiac Risk while Running Around Ancona. , 2019, , .		2
40	Sport Database: Cardiorespiratory data acquired through wearable sensors while practicing sports. <i>Data in Brief</i> , 2019, 27, 104793.	0.5	18
41	Compressed Segmented Beat Modulation Method using Discrete Cosine Transform*. , 2019, 2019, 2273-2276.		2
42	Electrocardiogram-Derived Respiratory Signal in Sleep Apnea by Segmented Beat Modulation Method. , 2019, , .		2
43	Wavelet filtering of fetal phonocardiography: A comparative analysis. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 6034-6046.	1.0	18
44	Fifty Years of Biomedical Engineering: From Origin to Smart Technologies. , 2019, , 123-141.		0
45	eCTG: an automatic procedure to extract digital cardiocotographic signals from digital images. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 156, 133-139.	2.6	21
46	Automatic Identification and Classification of Fetal Heart-Rate Decelerations from Cardiocotographic Recordings. , 2018, 2018, 474-477.		8
47	Automatic T-Wave Alternans Identification in Indirect and Direct Fetal Electrocardiography. , 2018, 2018, 4852-4855.		4
48	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
49	Electrocardiogram Derived Respiratory Signal through the Segmented-Beat Modulation Method. , 2018, 2018, 5681-5684.		9
50	Personalizing physical exercise in a computational model of fuel homeostasis. <i>PLoS Computational Biology</i> , 2018, 14, e1006073.	1.5	27
51	T-Wave Alternans in Partial Epileptic Patients. , 2018, , .		5
52	TWA Simulator: a Graphical User Interface for T-wave Alternans. , 2018, , .		2
53	Assessment of glucose effectiveness from short IVGTT in individuals with different degrees of glucose tolerance. <i>Acta Diabetologica</i> , 2018, 55, 1011-1018.	1.2	10
54	Association between Accelerations and Decelerations of Fetal Heart Rate. <i>IFMBE Proceedings</i> , 2018, , 1125-1128.	0.2	3

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55	Simple Assessment of Insulin Sensitivity in the Zucker Rat. IFMBE Proceedings, 2018, , 655-658.	0.2	1
56	No Changes in Glucose Effectiveness in Condition of Reduced Insulin Action but Preserved Glucose Tolerance as Assessed by Minimal Model Analysis. IFMBE Proceedings, 2018, , 1057-1060.	0.2	1
57	Separation of Superimposed Electrocardiographic and Electromyographic Signals. IFMBE Proceedings, 2018, , 518-521.	0.2	3
58	CTG Analyzer: A graphical user interface for cardiotocography. , 2017, 2017, 2606-2609.		20
59	Statistical baseline assessment in cardiotocography. , 2017, 2017, 3166-3169.		9
60	Second Heart Sound Onset to Identify T-Wave Offset. , 2017, , .		4
61	Overnight T-Wave Alternans in Sleep Apnea Patients. , 2017, , .		2
62	A system model of the effects of exercise on plasma Interleukin-6 dynamics in healthy individuals: Role of skeletal muscle and adipose tissue. PLoS ONE, 2017, 12, e0181224.	1.1	18
63	IVGTT-based simple assessment of glucose tolerance in the Zucker fatty rat: Validation against minimal models. PLoS ONE, 2017, 12, e0173200.	1.1	4
64	CaRiSMA 1.0: Cardiac Risk Self-Monitoring Assessment. The Open Sports Sciences Journal, 2017, 10, 179-190.	0.2	21
65	Estimation of second-phase insulin secretion in the Zucker fatty rat. , 2016, 2016, 3494-3497.		2
66	Design, User Experience and Usability Requirements for NGS Workflows in Clinical Applications. IFMBE Proceedings, 2016, , 546-550.	0.2	1
67	Estimation of First-Phase Insulin Secretion in the Zucker Fatty Rat. IFMBE Proceedings, 2016, , 551-554.	0.2	2
68	The Relative Role of Insulin Action and Secretion in Experimental Animal Models of Metabolic Syndrome. IFMBE Proceedings, 2016, , 555-558.	0.2	1
69	Health Monitoring in Sport Through Wearable Sensors: A Novel Approach Based on Heart-Rate Variability. Lecture Notes in Electrical Engineering, 2016, , 235-246.	0.3	4
70	Effects of walking on low-grade inflammation and their implications for Type 2 Diabetes. Preventive Medicine Reports, 2015, 2, 538-547.	0.8	22
71	C-Peptide-Based Assessment of Insulin Secretion in the Zucker Fatty Rat: A Modelistic Study. PLoS ONE, 2015, 10, e0125252.	1.1	11
72	MATLAB-implemented estimation procedure for model-based assessment of hepatic insulin degradation from standard intravenous glucose tolerance test data. Computer Methods and Programs in Biomedicine, 2013, 110, 215-225.	2.6	12

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73	The Onset of Type 2 Diabetes: Proposal for a Multi-Scale Model. JMIR Research Protocols, 2013, 2, e44.	0.5	13
74	Identification of an integrated mathematical model of standard oral glucose tolerance test for characterization of insulin potentiation in health. Computer Methods and Programs in Biomedicine, 2012, 107, 248-261.	2.6	13
75	Dynamics of insulin action in hypertension: assessment from minimal model interpretation of intravenous glucose tolerance test data. Medical and Biological Engineering and Computing, 2011, 49, 831-841.	1.6	10
76	Incretin-Induced Insulin Potentiation Characterized by an Improved Mathematical Model of Oral Glucose Tolerance Test. IFMBE Proceedings, 2011, , 231-234.	0.2	1
77	Fetal Phonocardiogram Denoising by Wavelet Transformation: Robustness to Noise. , 0, , .		14
78	T-Wave Alternans Identification in Direct Fetal Electrocardiography. , 0, , .		6
79	Quantification of Fetal ST-Segment Deviations. , 0, , .		2
80	PCG-Delineator: an Efficient Algorithm for Automatic Heart Sounds Detection in Fetal Phonocardiography. , 0, , .		6
81	Automatic Identification of Atrial Fibrillation by Spectral Analysis of Fibrillatory Waves. , 0, , .		5
82	ATHrIA: a New Adaptive Threshold Identification Algorithm for Electrocardiographic P Waves. , 0, , .		4
83	CPU-Based Segmented-Beat Modulation Method for Denoising Athlete Electrocardiograms During Training. , 0, , .		3