

Micaela Morettini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6380559/publications.pdf>

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	Artificial Neural Network for Atrial Fibrillation Identification in Portable Devices. <i>Sensors</i> , 2020, 20, 3570.	2.1	48
2	COVID-19 in Italy: Dataset of the Italian Civil Protection Department. <i>Data in Brief</i> , 2020, 30, 105526.	0.5	32
3	Personalizing physical exercise in a computational model of fuel homeostasis. <i>PLoS Computational Biology</i> , 2018, 14, e1006073.	1.5	27
4	Early temporal prediction of Type 2 Diabetes Risk Condition from a General Practitioner Electronic Health Record: A Multiple Instance Boosting Approach. <i>Artificial Intelligence in Medicine</i> , 2020, 105, 101847.	3.8	26
5	TyG-er: An ensemble Regression Forest approach for identification of clinical factors related to insulin resistance condition using Electronic Health Records. <i>Computers in Biology and Medicine</i> , 2019, 112, 103358.	3.9	23
6	Effects of walking on low-grade inflammation and their implications for Type 2 Diabetes. <i>Preventive Medicine Reports</i> , 2015, 2, 538-547.	0.8	22
7	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
8	eCTG: an automatic procedure to extract digital cardiocardiographic signals from digital images. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 156, 133-139.	2.6	21
9	CaRiSMA 1.0: Cardiac Risk Self-Monitoring Assessment. <i>The Open Sports Sciences Journal</i> , 2017, 10, 179-190.	0.2	21
10	CTG Analyzer: A graphical user interface for cardiocardiography. , 2017, 2017, 2606-2609.		20
11	A system model of the effects of exercise on plasma Interleukin-6 dynamics in healthy individuals: Role of skeletal muscle and adipose tissue. <i>PLoS ONE</i> , 2017, 12, e0181224.	1.1	18
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	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
15	Fetal Phonocardiogram Denoising by Wavelet Transformation: Robustness to Noise. , 0, , .		14
16	Identification of an integrated mathematical model of standard oral glucose tolerance test for characterization of insulin potentiation in health. <i>Computer Methods and Programs in Biomedicine</i> , 2012, 107, 248-261.	2.6	13
17	The Onset of Type 2 Diabetes: Proposal for a Multi-Scale Model. <i>JMIR Research Protocols</i> , 2013, 2, e44.	0.5	13
18	MATLAB-implemented estimation procedure for model-based assessment of hepatic insulin degradation from standard intravenous glucose tolerance test data. <i>Computer Methods and Programs in Biomedicine</i> , 2013, 110, 215-225.	2.6	12

#	ARTICLE	IF	CITATIONS
19	Digital cardiocography: What is the optimal sampling frequency?. Biomedical Signal Processing and Control, 2019, 51, 210-215.	3.5	12
20	Glucose effectiveness and its components in relation to body mass index. European Journal of Clinical Investigation, 2019, 49, e13099.	1.7	11
21	C-Peptide-Based Assessment of Insulin Secretion in the Zucker Fatty Rat: A Modelistic Study. PLoS ONE, 2015, 10, e0125252.	1.1	11
22	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
23	Assessment of glucose effectiveness from short IVGTT in individuals with different degrees of glucose tolerance. Acta Diabetologica, 2018, 55, 1011-1018.	1.2	10
24	Statistical baseline assessment in cardiocography. , 2017, 2017, 3166-3169.		9
25	Electrocardiogram Derived Respiratory Signal through the Segmented-Beat Modulation Method. , 2018, 2018, 5681-5684.		9
26	AdvFPCG-Delineator: Advanced delineator for fetal phonocardiography. Biomedical Signal Processing and Control, 2020, 61, 102021.	3.5	9
27	Annotation dataset of the cardiocographic recordings constituting the "CTU-CHB intra-partum CTG database". Data in Brief, 2020, 31, 105690.	0.5	9
28	Automatic Identification and Classification of Fetal Heart-Rate Decelerations from Cardiocographic Recordings. , 2018, 2018, 474-477.		8
29	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
30	Initial Investigation of Athletes'™ Electrocardiograms Acquired by Wearable Sensors during the Pre-exercise Phase. Open Biomedical Engineering Journal, 2021, 15, 37-44.	0.7	7
31	T-Wave Alternans Identification in Direct Fetal Electrocardiography. , 0, , .		6
32	PCG-Delineator: an Efficient Algorithm for Automatic Heart Sounds Detection in Fetal Phonocardiography. , 0, , .		6
33	Surface electromyography low-frequency content: Assessment in isometric conditions after electrocardiogram cancellation by the Segmented-Beat Modulation Method. Informatics in Medicine Unlocked, 2018, 13, 71-80.	1.9	6
34	Extended Segmented Beat Modulation Method for Cardiac Beat Classification and Electrocardiogram Denoising. Electronics (Switzerland), 2020, 9, 1178.	1.8	6
35	Ensemble Empirical Mode Decomposition for Efficient R-Peak Detection in Electrocardiograms Acquired by Portable Sensors During Sport Activity. , 2021, , .		6
36	Temporal Patterns of Glucagon and Its Relationships with Glucose and Insulin following Ingestion of Different Classes of Macronutrients. Nutrients, 2022, 14, 376.	1.7	6

#	ARTICLE	IF	CITATIONS
37	T-Wave Alternans in Partial Epileptic Patients. , 2018, , .		5
38	Automatic Identification of Atrial Fibrillation by Spectral Analysis of Fibrillatory Waves. , 0, , .		5
39	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
40	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
41	Unraveling the Factors Determining Development of Type 2 Diabetes in Women With a History of Gestational Diabetes Mellitus Through Machine-Learning Techniques. Frontiers in Physiology, 2022, 13, 789219.	1.3	5
42	Second Heart Sound Onset to Identify T-Wave Offset. , 2017, , .		4
43	Automatic T-Wave Alternans Identification in Indirect and Direct Fetal Electrocardiography. , 2018, 2018, 4852-4855.		4
44	Simultaneously acquired data from contactless and wearable devices for direct and indirect heart-rate measurement. Data in Brief, 2019, 26, 104436.	0.5	4
45	A Preliminary Validation of a New Surgical Procedure for the Treatment of Primary Bladder Neck Obstruction Using a Computational Modeling Approach. Bioengineering, 2021, 8, 87.	1.6	4
46	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
47	IVGTT-based simple assessment of glucose tolerance in the Zucker fatty rat: Validation against minimal models. PLoS ONE, 2017, 12, e0173200.	1.1	4
48	AThRIA: a New Adaptive Threshold Identification Algorithm for Electrocardiographic P Waves. , 0, , .		4
49	Estimation of Tidal Volume during Exercise Stress Test from Wearable-Device Measures of Heart Rate and Breathing Rate. Applied Sciences (Switzerland), 2022, 12, 5441.	1.3	4
50	T-wave Alternans in Nonpathological Preterm Infants. Annals of Noninvasive Electrocardiology, 2020, 25, e12745.	0.5	3
51	Electrocardiographic Alternans: A New Approach. IFMBE Proceedings, 2020, , 159-166.	0.2	3
52	Association between Accelerations and Decelerations of Fetal Heart Rate. IFMBE Proceedings, 2018, , 1125-1128.	0.2	3
53	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
54	Separation of Superimposed Electrocardiographic and Electromyographic Signals. IFMBE Proceedings, 2018, , 518-521.	0.2	3

#	ARTICLE	IF	CITATIONS
55	GPU-Based Segmented-Beat Modulation Method for Denoising Athlete Electrocardiograms During Training. , 0, , .		3
56	Spectral F-wave index for automatic identification of atrial fibrillation in very short electrocardiograms. Biomedical Signal Processing and Control, 2022, 71, 103210.	3.5	3
57	Repeated Structuring & Learning Procedure for Detection of Myocardial Ischemia: a Robustness Analysis. , 2021, 2021, 467-470.		3
58	Signal Processing for Athletic Cardiovascular Monitoring with Wearable Sensors: Fully Automatic Detection of Training Phases from Heart Rate Data. , 2021, , .		3
59	Estimation of second-phase insulin secretion in the Zucker fatty rat. , 2016, 2016, 3494-3497.		2
60	Estimation of First-Phase Insulin Secretion in the Zucker Fatty Rat. IFMBE Proceedings, 2016, , 551-554.	0.2	2
61	Overnight T-Wave Alternans in Sleep Apnea Patients. , 2017, , .		2
62	Quantification of Fetal ST-Segment Deviations. , 0, , .		2
63	TWA Simulator: a Graphical User Interface for T-wave Alternans. , 2018, , .		2
64	Self-Monitoring of Cardiac Risk while Running Around Ancona. , 2019, , .		2
65	Compressed Segmented Beat Modulation Method using Discrete Cosine Transform*. , 2019, 2019, 2273-2276.		2
66	Electrocardiogram-Derived Respiratory Signal in Sleep Apnea by Segmented Beat Modulation Method. , 2019, , .		2
67	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
68	Design, User Experience and Usability Requirements for NGS Workflows in Clinical Applications. IFMBE Proceedings, 2016, , 546-550.	0.2	1
69	The Relative Role of Insulin Action and Secretion in Experimental Animal Models of Metabolic Syndrome. IFMBE Proceedings, 2016, , 555-558.	0.2	1
70	Dofetilide-Induced Microvolt T-Wave Alternans. , 2019, 2019, 95-98.		1
71	Extraction of Digital Cardiotocographic Signals from Digital Cardiotocographic Images: Robustness of eCTG Procedure. Electronics (Switzerland), 2019, 8, 1122.	1.8	1
72	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

#	ARTICLE	IF	CITATIONS
73	Comparison of Software Packages for the Analysis of Continuous Glucose Monitoring Data. , 2021, , .		1
74	Hepatic and Extrahepatic Insulin Clearance in Mice with Double Deletion of Glucagon-Like Peptide-1 and Glucose-Dependent Insulinotropic Polypeptide Receptors. Biomedicines, 2021, 9, 973.	1.4	1
75	Bradycardia Assessment in Preterm Infants. IFMBE Proceedings, 2020, , 100-107.	0.2	1
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	Simple Assessment of Insulin Sensitivity in the Zucker Rat. IFMBE Proceedings, 2018, , 655-658.	0.2	1
78	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
79	PCG-Decompositor: A New Method for Fetal Phonocardiogram Filtering Based on Wavelet Transform Multi-level Decomposition. IFMBE Proceedings, 2020, , 47-53.	0.2	1
80	Adaptive bradycardia assessment in preterm infants. Biomedical Signal Processing and Control, 2021, 68, 102816.	3.5	0
81	Electrocardiogram-based index for the assessment of drug-induced hERG potassium channel block. Journal of Electrocardiology, 2021, 69S, 55-60.	0.4	0
82	Fifty Years of Biomedical Engineering: From Origin to Smart Technologies. , 2019, , 123-141.		0
83	Model-Based Assessment of Sex Differences in Glucose Effectiveness and Its Components. IFMBE Proceedings, 2020, , 500-507.	0.2	0