MarÃ-a Elena Hernando

List of Publications by Year
in descending order

66	1,728	304743 22	289244 40
papers	citations	h-index	g-index

71	71	71	1785
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Long short-term memory neural network for glucose prediction. Neural Computing and Applications, 2021, 33, 4191-4203.	5.6	19
2	A Systematic Review of Collective Evidences Investigating the Effect of Diabetes Monitoring Systems and Their Application in Health Care. Frontiers in Endocrinology, 2021, 12, 636959.	3.5	12
3	Automated Insulin Delivery: The Artificial Pancreas Technical Challenges. American Journal of Therapeutics, 2020, 27, e62-e70.	0.9	8
4	BCIAUT-P300: A Multi-Session and Multi-Subject Benchmark Dataset on Autism for P300-Based Brain-Computer-Interfaces. Frontiers in Neuroscience, 2020, 14, 568104.	2.8	32
5	Managing gestational diabetes mellitus using a smartphone application with artificial intelligence (SineDie) during the COVID-19 pandemic: Much more than just telemedicine. Diabetes Research and Clinical Practice, 2020, 169, 108396.	2.8	31
6	Prediction of Cocaine Inpatient Treatment Success Using Machine Learning on High-Dimensional Heterogeneous Data. IEEE Access, 2020, 8, 218936-218953.	4.2	2
7	Method to generate a large cohort in-silico for type 1 diabetes. Computer Methods and Programs in Biomedicine, 2020, 193, 105523.	4.7	2
8	Linear vs Nonlinear Classification of Social Joint Attention in Autism Using VR P300-Based Brain Computer Interfaces. IFMBE Proceedings, 2020, , 1869-1874.	0.3	5
9	Decision Support in Diabetes Care: The Challenge of Supporting Patients in Their Daily Living Using a Mobile Glucose Predictor. Journal of Diabetes Science and Technology, 2018, 12, 243-250.	2.2	30
10	Web Support for Weight-Loss Interventions: PREDIRCAM2 Clinical Trial Baseline Characteristics and Preliminary Results. Diabetes Technology and Therapeutics, 2018, 20, 380-385.	4.4	3
11	Design and Technical Validation of a Telemedicine Service for Rural Healthcare in Ecuador. Telemedicine Journal and E-Health, 2018, 24, 544-551.	2.8	10
12	Linear Time-Varying Luenberger Observer Applied to Diabetes. IEEE Access, 2018, 6, 23612-23625.	4.2	8
13	Gestational Diabetes Management Using Smart Mobile Telemedicine. Journal of Diabetes Science and Technology, 2018, 12, 260-264.	2.2	66
14	Artificial Intelligence Methodologies and Their Application to Diabetes. Journal of Diabetes Science and Technology, 2018, 12, 303-310.	2.2	70
15	Objective motor assessment for personalized rehabilitation of upper extremity in brain injury patients. NeuroRehabilitation, 2018, 42, 429-439.	1.3	5
16	Modelling the effect of insulin on the disposal of meal-attributable glucose in type 1 diabetes. Medical and Biological Engineering and Computing, 2017, 55, 271-282.	2.8	6
17	A web-based clinical decision support system for gestational diabetes: Automatic diet prescription and detection of insulin needs. International Journal of Medical Informatics, 2017, 102, 35-49.	3.3	97
18	MobiGuide: a personalized and patient-centric decision-support system and its evaluation in the atrial fibrillation and gestational diabetes domains. User Modeling and User-Adapted Interaction, 2017, 27, 159-213.	3.8	43

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19	Assessment of a personalized and distributed patient guidance system. International Journal of Medical Informatics, 2017, 101, 108-130.	3.3	61
20	Telemedicine in medical training in Ecuador. , 2017, , .		3
21	Automatic Identification of Physical Activity Intensity and Modality from the Fusion of Accelerometry and Heart Rate Data. Methods of Information in Medicine, 2016, 55, 533-544.	1.2	4
22	Automatic classification of glycaemia measurements to enhance data interpretation in an expert system for gestational diabetes. Expert Systems With Applications, 2016, 63, 386-396.	7.6	9
23	Customized Monitoring and Interaction Devices in Virtual Environments for Upper Limb Rehabilitation After Brain Injury. Studies in Health Technology and Informatics, 2016, 226, 37-40.	0.3	0
24	Service for the Pseudonymization of Electronic Healthcare Records Based on ISO/EN 13606 for the Secondary Use of Information. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1937-1944.	6.3	16
25	Quantifying the Acute Changes in Glucose with Exercise in Type 1 Diabetes: A Systematic Review and Meta-Analysis. Sports Medicine, 2015, 45, 587-599.	6.5	83
26	Design and Technical Evaluation of an Enhanced Location-Awareness Service Enabler for Spatial Disorientation Management of Elderly With Mild Cognitive Impairment. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 37-43.	6.3	8
27	Patient-oriented Computerized Clinical Guidelines for Mobile Decision Support in Gestational Diabetes. Journal of Diabetes Science and Technology, 2014, 8, 238-246.	2.2	25
28	Artificial Pancreas Using a Personalized Rule-Based Controller Achieves Overnight Normoglycemia in Patients with Type 1 Diabetes. Diabetes Technology and Therapeutics, 2014, 16, 172-179.	4.4	25
29	Automatic Blood Glucose Classification for Gestational Diabetes with Feature Selection: Decision Trees vs. Neural Networks. IFMBE Proceedings, 2014, , 1370-1373.	0.3	8
30	Parallel Workflows to Personalize Clinical Guidelines Recommendations: Application to Gestational Diabetes Mellitus. IFMBE Proceedings, 2014, , 1409-1412.	0.3	1
31	PREDIRCAM eHealth Platform for Individualized Telemedical Assistance for Lifestyle Modification in		

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37	Agent-Based Model of the Endocrine Pancreas and Interaction with Innate Immune System. Advances in Intelligent and Soft Computing, 2010, , 157-164.	0.2	0
38	A simulation study of an adaptive inverse controller for closed-loop control in type 1 diabetes. , 2010, , .		0
39	A Simulation Study of an Inverse Controller for Closed- and Semiclosed-Loop Control in Type 1 Diabetes. Diabetes Technology and Therapeutics, 2010, 12, 95-104.	4.4	9
40	Automatic Data Processing to Achieve a Safe Telemedical Artificial Pancreas. Journal of Diabetes Science and Technology, 2009, 3, 1039-1046.	2.2	10
41	Telemedical Artificial Pancreas: PARIS (Pancreas Artificial Telemedico Inteligente) research project. Diabetes Care, 2009, 32, S211-S216.	8.6	7
42	Architecture of a wireless Personal Assistant for telemedical diabetes care. International Journal of Medical Informatics, 2009, 78, 391-403.	3.3	40
43	Teleconsulting: A medical application based on IP multimedia subsystem technology for ambient assisted living. , 2009, , .		2
44	Mealtime Blood Glucose Classifier Based on Fuzzy Logic for the DIABTel Telemedicine System. Lecture Notes in Computer Science, 2009, , 295-304.	1.3	4
45	Electronic Report Generation Web Service evaluated within a Telemedicine System. IFMBE Proceedings, 2009, , 994-997.	0.3	0
46	IP Multimedia Subsystem Technology for Ambient Assisted Living. Lecture Notes in Computer Science, 2009, , 257-260.	1.3	1
47	The INCA System: A Further Step Towards a Telemedical Artificial Pancreas. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 470-479.	3.2	55
48	Real-Time Continuous Glucose Monitoring Together with Telemedical Assistance Improves Glycemic Control and Glucose Stability in Pump-Treated Patients. Diabetes Technology and Therapeutics, 2008, 10, 194-199.	4.4	35
49	Definition of Information Technology Architectures for Continuous Data Management and Medical Device Integration in Diabetes. Journal of Diabetes Science and Technology, 2008, 2, 899-905.	2.2	4
50	A Telemedicine System That Includes a Personal Assistant Improves Glycemic Control in Pump-Treated Patients with Type 1 Diabetes. Journal of Diabetes Science and Technology, 2007, 1, 505-510.	2.2	23
51	HIS modelling and simulation based costâ€“benefit analysis of a telemedical system for closed-loop diabetes therapy. International Journal of Medical Informatics, 2007, 76, S447-S455.	3.3	18
52	Chronic Patient's Management: the Copd Example. , 2006, , 575-585.		3
53	The M2DM Project. Methods of Information in Medicine, 2006, 45, 79-84.	1.2	36
54	A proposed semantic framework for diabetes education content management, customisation and delivery within the M2DM project. Computer Methods and Programs in Biomedicine, 2006, 83, 188-197.	4.7	16

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55	Intelligent alarms integrated in a multi-agent architecture for diabetes management. Transactions of the Institute of Measurement and Control, 2004, 26, 185-200.	1.7	13
56	New Frontiers of Telemedicine Systems for Chronic Patients Monitoring: Adaptive Systems and Multi-Access Services. Measurement and Control, 2004, 37, 146-150.	1.8	0
57	Management of Patients with Diabetes Through Information Technology: Tools for Monitoring and Control of the Patients' Metabolic Behavior. Diabetes Technology and Therapeutics, 2004, 6, 567-578.	4.4	40
58	New trends in diabetes management: mobile telemedicine closed-loop system. Studies in Health Technology and Informatics, 2004, 105, 70-9.	0.3	3
59	Design, Methods, and Evaluation Directions of a Multi-Access Service for the Management of Diabetes Mellitus Patients. Diabetes Technology and Therapeutics, 2003, 5, 621-629.	4.4	58
60	Real-time monitoring of the human alertness level. , 2003, , .		2
61	A telemedicine support for diabetes management: the T-IDDM project. Computer Methods and Programs in Biomedicine, 2002, 69, 147-161.	4.7	109
62	Telemedicine as a tool for intensive management of diabetes: the DIABTel experience. Computer Methods and Programs in Biomedicine, 2002, 69, 163-177.	4.7	134
63	Evaluation of DIABNET, a decision support system for therapy planning in gestational diabetes. Computer Methods and Programs in Biomedicine, 2000, 62, 235-248.	4.7	38
64	Telemedicine for diabetes care: The DIABTel approach towards diabetestelecare. Medical Informatics = Medecine Et Informatique, 1996, 21, 283-295.	0.8	76
65	DIABNET: A qualitative model-based advisory system for therapy planning in gestational diabetes. Medical Informatics = Medecine Et Informatique, 1996, 21, 359-374.	0.8	20
66	A telemedicine distributed decision-support system for diabetes management. , 1992, , .		2