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	Artificial Neural Network Algorithm for Online Glucose Prediction from Continuous Glucose Monitoring. Diabetes Technology and Therapeutics, 2010, 12, 81-88.	4.4	240
2	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
3	A telemedicine support for diabetes management: the T-IDDM project. Computer Methods and Programs in Biomedicine, 2002, 69, 147-161.	4.7	109
4	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
5	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
6	Telemedicine for diabetes care: The DIABTel approach towards diabetestelecare. Medical Informatics = Medecine Et Informatique, 1996, 21, 283-295.	0.8	76
7	Artificial Intelligence Methodologies and Their Application to Diabetes. Journal of Diabetes Science and Technology, 2018, 12, 303-310.	2.2	70
8	Gestational Diabetes Management Using Smart Mobile Telemedicine. Journal of Diabetes Science and Technology, 2018, 12, 260-264.	2.2	66
9	Assessment of a personalized and distributed patient guidance system. International Journal of Medical Informatics, 2017, 101, 108-130.	3.3	61
10	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
11	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
12	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
13	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
14	Architecture of a wireless Personal Assistant for telemedical diabetes care. International Journal of Medical Informatics, 2009, 78, 391-403.	3.3	40
15	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
16	The M2DM Project. Methods of Information in Medicine, 2006, 45, 79-84.	1.2	36
17	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
18	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

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	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
24	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
25	Long short-term memory neural network for glucose prediction. Neural Computing and Applications, 2021, 33, 4191-4203.	5.6	19
26	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
27	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
28	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
29	How Continuous Monitoring Changes the Interaction of Patients with a Mobile Telemedicine System. Journal of Diabetes Science and Technology, 2011, 5, 5-12.	2.2	14
30	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
31	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
32	Automatic Data Processing to Achieve a Safe Telemedical Artificial Pancreas. Journal of Diabetes Science and Technology, 2009, 3, 1039-1046.	2.2	10
33	PREDIRCAM eHealth Platform for Individualized Telemedical Assistance for Lifestyle Modification in		

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37	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
38	Linear Time-Varying Luenberger Observer Applied to Diabetes. IEEE Access, 2018, 6, 23612-23625.	4.2	8
39	Automated Insulin Delivery: The Artificial Pancreas Technical Challenges. American Journal of Therapeutics, 2020, 27, e62-e70.	0.9	8
40	Automatic Blood Glucose Classification for Gestational Diabetes with Feature Selection: Decision Trees vs. Neural Networks. IFMBE Proceedings, 2014, , 1370-1373.	0.3	8
41	Telemedical Artificial Pancreas: PARIS (Pancreas Artificial Telemedico Inteligente) research project. Diabetes Care, 2009, 32, S211-S216.	8.6	7
42	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
43	Objective motor assessment for personalized rehabilitation of upper extremity in brain injury patients. NeuroRehabilitation, 2018, 42, 429-439.	1.3	5
44	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
45	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
46	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
47	Mealtime Blood Glucose Classifier Based on Fuzzy Logic for the DIABTel Telemedicine System. Lecture Notes in Computer Science, 2009, , 295-304.	1.3	4
48	Statistical Machine Learning for Automatic Assessment of Physical Activity Intensity Using Multi-axial Accelerometry and Heart Rate. Lecture Notes in Computer Science, 2011, , 70-79.	1.3	4
49	Chronic Patient's Management: the Copd Example. , 2006, , 575-585.		3
50	Telemedicine in medical training in Ecuador. , 2017, , .		3
51	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
52	New trends in diabetes management: mobile telemedicine closed-loop system. Studies in Health Technology and Informatics, 2004, 105, 70-9.	0.3	3
53	A telemedicine distributed decision-support system for diabetes management. , 1992, , .		2
54	Real-time monitoring of the human alertness level. , 2003, , .		2

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55	Teleconsulting: A medical application based on IP multimedia subsystem technology for ambient assisted living. , 2009, , .		2
56	Agent-based model of macrophage action on endocrine pancreas. International Journal of Data Mining and Bioinformatics, 2012, 6, 355.	0.1	2
57	Prediction of Cocaine Inpatient Treatment Success Using Machine Learning on High-Dimensional Heterogeneous Data. IEEE Access, 2020, 8, 218936-218953.	4.2	2
58	Method to generate a large cohort in-silico for type 1 diabetes. Computer Methods and Programs in Biomedicine, 2020, 193, 105523.	4.7	2
59	How network operators can enhance Ambient Assisted Living applications through Next Generation Networks. Journal of Ambient Intelligence and Smart Environments, 2013, 5, 237-250.	1.4	1
60	Parallel Workflows to Personalize Clinical Guidelines Recommendations: Application to Gestational Diabetes Mellitus. IFMBE Proceedings, 2014, , 1409-1412.	0.3	1
61	IP Multimedia Subsystem Technology for Ambient Assisted Living. Lecture Notes in Computer Science, 2009, , 257-260.	1.3	1
62	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
63	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
64	A simulation study of an adaptive inverse controller for closed-loop control in type 1 diabetes. , 2010, , .		0
65	Electronic Report Generation Web Service evaluated within a Telemedicine System. IFMBE Proceedings, 2009, , 994-997.	0.3	0
66	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