Josep Vehi

List of Publications by Year in descending order

169 papers	4,792 citations	117625 34 h-index	110387 64 g-index
181 all docs	181 docs citations	181 times ranked	4364 citing authors

#	Article	IF	Citations
1	Artificial Intelligence for Diabetes Management and Decision Support: Literature Review. Journal of Medical Internet Research, 2018, 20, e10775.	4.3	305
2	Intergenerational Transmission of Glucose Intolerance and Obesity by In Utero Undernutrition in Mice. Diabetes, 2009, 58, 460-468.	0.6	277
3	Vesicle fusion following receptor-mediated endocytosis requires a protein active in Golgi transport. Nature, 1989, 339, 398-400.	27.8	254
4	The role of nutrition on epigenetic modifications and their implications on health. Biochimie, 2012, 94, 2242-2263.	2.6	219
5	A review of personalized blood glucose prediction strategies for T1DM patients. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2833.	2.1	195
6	The Ca2+-Sensing Receptor (CaR) Activates Phospholipases C, A2, and D in Bovine Parathyroid and CaR-Transfected, Human Embryonic Kidney (HEK293) Cells. Journal of Bone and Mineral Research, 1997, 12, 715-725.	2.8	188
7	In Utero Undernutrition in Male Mice Programs Liver Lipid Metabolism in the Second-Generation Offspring Involving Altered Lxra DNA Methylation. Cell Metabolism, 2014, 19, 941-951.	16.2	178
8	Individualised perioperative open-lung approach versus standard protective ventilation in abdominal surgery (iPROVE): a randomised controlled trial. Lancet Respiratory Medicine,the, 2018, 6, 193-203.	10.7	155
9	Regulatory role for GTP-binding proteins in endocytosis. Science, 1989, 244, 1475-1477.	12.6	143
10	Transgenerational Inheritance of Glucose Intolerance in a Mouse Model of Neonatal Overnutrition. Endocrinology, 2010, 151, 5617-5623.	2.8	129
11	Sodium and Ionic Strength Sensing by the Calcium Receptor. Journal of Biological Chemistry, 1998, 273, 19579-19586.	3.4	122
12	The Calcium-sensing Receptor Is Localized in Caveolin-rich Plasma Membrane Domains of Bovine Parathyroid Cells. Journal of Biological Chemistry, 1998, 273, 21708-21713.	3.4	116
13	Vibration control of a class of semiactive suspension system using neural network and backstepping techniques. Mechanical Systems and Signal Processing, 2009, 23, 1946-1953.	8.0	104
14	Inhibition of PTH Secretion by Interleukin-1Î² in Bovine Parathyroid Glandsin Vitrols Associated with an Up-Regulation of the Calcium-Sensing Receptor mRNA. Biochemical and Biophysical Research Communications, 1997, 238, 880-885.	2.1	102
15	Estimating Plasma Glucose from Interstitial Glucose: The Issue of Calibration Algorithms in Commercial Continuous Glucose Monitoring Devices. Sensors, 2010, 10, 10936-10952.	3.8	93
16	Clinical spectrum of premature pubarche: Links to metabolic syndrome and ovarian hyperandrogenism. Reviews in Endocrine and Metabolic Disorders, 2009, 10, 63-76.	5.7	85
17	Multivariate statistics process control for dimensionality reduction in structural assessment. Mechanical Systems and Signal Processing, 2008, 22, 155-171.	8.0	71
18	Unannounced Meals in the Artificial Pancreas: Detection Using Continuous Glucose Monitoring. Sensors, 2018, 18, 884.	3.8	64

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19	Safety Auxiliary Feedback Element for the Artificial Pancreas in Type 1 Diabetes. IEEE Transactions on Biomedical Engineering, 2013, 60, 2113-2122.	4.2	58
20	Personalized blood glucose prediction: A hybrid approach using grammatical evolution and physiological models. PLoS ONE, 2017, 12, e0187754.	2.5	56
21	Fault detection and isolation of the three-tank system using the modal interval analysis. Journal of Process Control, 2002, 12, 325-338.	3.3	48
22	Robust Fault Detection System for Insulin Pump Therapy Using Continuous Glucose Monitoring. Journal of Diabetes Science and Technology, 2012, 6, 1131-1141.	2.2	48
23	Output feedback sliding mode control of base isolated structures. Journal of the Franklin Institute, 2000, 337, 555-577.	3.4	47
24	Impact Damage Detection in Aircraft Composites Using Knowledge-based Reasoning. Structural Health Monitoring, 2008, 7, 215-230.	7.5	46
25	The Effects of an Open-Lung Approach During One-Lung Ventilation on Postoperative Pulmonary Complications and Driving Pressure: A Descriptive, Multicenter National Study. Journal of Cardiothoracic and Vascular Anesthesia, 2018, 32, 2665-2672.	1.3	45
26	Prediction of Nocturnal Hypoglycemia in Adults with Type 1 Diabetes under Multiple Daily Injections Using Continuous Glucose Monitoring and Physical Activity Monitor. Sensors, 2020, 20, 1705.	3.8	43
27	A Survey on Interval Model Simulators and their Properties Related to Fault Detection. Annual Reviews in Control, 2000, 24, 31-39.	7.9	43
28	Real-Time Continuous Glucose Monitoring in an Intensive Care Unit: Better Accuracy in Patients with Septic Shock. Diabetes Technology and Therapeutics, 2012, 14, 568-575.	4.4	42
29	Composite semiactive control of a class of seismically excited structures. Journal of the Franklin Institute, 2001, 338, 225-240.	3.4	41
30	Closed-Loop Control of Postprandial Glycemia Using an Insulin-on-Board Limitation Through Continuous Action on Glucose Target. Diabetes Technology and Therapeutics, 2017, 19, 355-362.	4.4	40
31	Machine Learning Techniques for Hypoglycemia Prediction: Trends and Challenges. Sensors, 2021, 21, 546.	3.8	40
32	Postprandial blood glucose control using a hybrid adaptive PD controller with insulin-on-board limitation. Biomedical Signal Processing and Control, 2013, 8, 724-732.	5.7	38
33	Accuracy of Continuous Glucose Monitoring before, during, and after Aerobic and Anaerobic Exercise in Patients with Type 1 Diabetes Mellitus. Biosensors, 2018, 8, 22.	4.7	38
34	Prediction and prevention of hypoglycaemic events in type-1 diabetic patients using machine learning. Health Informatics Journal, 2020, 26, 703-718.	2.1	38
35	Real-Time Glucose Estimation Algorithm for Continuous Glucose Monitoring Using Autoregressive Models. Journal of Diabetes Science and Technology, 2010, 4, 391-403.	2.2	35
36	A survey on interval model simulators and their properties related to fault detection. Annual Reviews in Control, 2000, 24, 31-39.	7.9	34

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37	Postprandial response improvement via safety layer in closed-loop blood glucose controllers. Biomedical Signal Processing and Control, 2015, 16, 80-87.	5.7	32
38	A New Blood Glucose Control Scheme for Unannounced Exercise in Type 1 Diabetic Subjects. IEEE Transactions on Control Systems Technology, 2020, 28, 593-600.	5.2	32
39	Quantified Set Inversion Algorithm with Applications to Control. Reliable Computing, 2005, 11, 369-382.	0.8	31
40	Coordinated Basalâ€"Bolus Infusion for Tighter Postprandial Glucose Control in Insulin Pump Therapy. Journal of Diabetes Science and Technology, 2009, 3, 89-97.	2.2	30
41	Guaranteed set-point computation with application to the control of a sailboat. International Journal of Control, Automation and Systems, 2010, 8, 1-7.	2.7	30
42	Automated blood glucose control in type 1 diabetes: A review of progress and challenges. Endocrinologia, Diabetes Y NutriciÃ“n, 2018, 65, 172-181.	0.3	30
43	Risk-based postprandial hypoglycemia forecasting using supervised learning. International Journal of Medical Informatics, 2019, 126, 1-8.	3.3	30
44	A Review of Safety and Hazards Associated With the Artificial Pancreas. IEEE Reviews in Biomedical Engineering, 2017, 10, 44-62.	18.0	28
45	Expression of Calcium-Sensing Receptor Gene by Avian Parathyroid Gland in Vivo: Relationship to Plasma Calcium. General and Comparative Endocrinology, 2000, 117, 173-181.	1.8	27
46	Purification and characterization of the d-mannose receptor from J774 mouse macrophage cells. Carbohydrate Research, 1991, 213, 145-153.	2.3	26
47	A Simple Robust Method for Estimating the Glucose Rate of Appearance from Mixed Meals. Journal of Diabetes Science and Technology, 2012, 6, 153-162.	2.2	25
48	The use of permeabilized cells to study the ion requirements of receptorâ€"ligand dissociation in endosomes. Biochemical Journal, 1989, 260, 127-134.	3.7	24
49	Using Support Vector Machines to Detect Therapeutically Incorrect Measurements by the MiniMed CGMSÂ®. Journal of Diabetes Science and Technology, 2008, 2, 622-629.	2.2	24
50	Title is missing!. Reliable Computing, 2001, 7, 171-185.	0.8	23
51	Structural assessment under uncertain parameters via interval analysis. Journal of Computational and Applied Mathematics, 2008, 218, 43-52.	2.0	23
52	The calciumâ€sensing receptor and parathyroid hormoneâ€related protein are expressed in differentiated, favorable neuroblastic tumors. Cancer, 2009, 115, 2792-2803.	4.1	23
53	Adaptive Calibration Algorithm for Plasma Glucose Estimation in Continuous Glucose Monitoring. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 530-538.	6.3	23
54	Comparison of interval and Monte Carlo simulation for the prediction of postprandial glucose under uncertainty in type 1 diabetes mellitus. Computer Methods and Programs in Biomedicine, 2011, 104, 325-332.	4.7	22

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55	Long-Term Glucose Forecasting Using a Physiological Model and Deconvolution of the Continuous Glucose Monitoring Signal. Sensors, 2019, 19, 4338.	3.8	22
56	Impact of Use Frequency of a Mobile Diabetes Management App on Blood Glucose Control: Evaluation Study. JMIR MHealth and UHealth, 2019, 7, e11933.	3.7	21
57	Two Approaches to Structural Damage Identification: Model Updating versus Soft Computing. Journal of Intelligent Material Systems and Structures, 2006, 17, 63-79.	2.5	20
58	Calculation of the Best Basalâ€“Bolus Combination for Postprandial Glucose Control in Insulin Pump Therapy. IEEE Transactions on Biomedical Engineering, 2011, 58, 274-281.	4.2	19
59	Modal Interval Analysis. Lecture Notes in Mathematics, 2014, , .	0.2	19
60	Evaluation of a Novel Continuous Glucose Monitoring-Based Method for Mealtime Insulin Dosingâ€”the iBolusâ€”in Subjects with Type 1 Diabetes Using Continuous Subcutaneous Insulin Infusion Therapy: A Randomized Controlled Trial. Diabetes Technology and Therapeutics, 2012, 14, 1043-1052.	4.4	18
61	Soccer team based on agent-oriented programming. Robotics and Autonomous Systems, 1997, 21, 167-176.	5.1	17
62	Decentralized active control of a class of uncertain cable-stayed flexible structures. International Journal of Control, 2002, 75, 285-296.	1.9	17
63	Continuous minimax optimization using modal intervals. Journal of Mathematical Analysis and Applications, 2008, 339, 18-30.	1.0	17
64	Robust Sliding Mode Closed-loop Glucose Control with Meal Compensation in Type 1 Diabetes Mellitus. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 4240-4245.	0.4	17
65	Insulin dosage optimization based on prediction of postprandial glucose excursions under uncertain parameters and food intake. Computer Methods and Programs in Biomedicine, 2012, 105, 61-69.	4.7	17
66	Assessment of Mitigation Methods to Reduce the Risk of Hypoglycemia for Announced Exercise in a Uni-hormonal Artificial Pancreas. Diabetes Technology and Therapeutics, 2018, 20, 285-295.	4.4	17
67	Minimizing postprandial hypoglycemia in Type 1 diabetes patients using multiple insulin injections and capillary blood glucose self-monitoring with machine learning techniques. Computer Methods and Programs in Biomedicine, 2019, 178, 175-180.	4.7	17
68	Detection and Control of Unannounced Exercise in the Artificial Pancreas Without Additional Physiological Signals. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 259-267.	6.3	17
69	A hybrid approach of knowledge-based reasoning for structural assessment. Smart Materials and Structures, 2005, 14, 1554-1562.	3.5	16
70	Profiling intra-patient type I diabetes behaviors. Computer Methods and Programs in Biomedicine, 2016, 136, 131-141.	4.7	16
71	Modeling the Error of the Medtronic Paradigm Veo Enlite Glucose Sensor. Sensors, 2017, 17, 1361.	3.8	16
72	Detection of Correct and Incorrect Measurements in Real-Time Continuous Glucose Monitoring Systems by Applying a Postprocessing Support Vector Machine. IEEE Transactions on Biomedical Engineering, 2013, 60, 1891-1899.	4.2	15

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73	Prediction of postprandial blood glucose under uncertainty and intra-patient variability in type 1 diabetes: A comparative study of three interval models. Computer Methods and Programs in Biomedicine, 2012, 108, 224-233.	4.7	14
74	Open-loop glucose control: Automatic IOB-based super-bolus feature for commercial insulin pumps. Computer Methods and Programs in Biomedicine, 2018, 159, 145-158.	4.7	14
75	Principal component analysis in combination with case-based reasoning for detecting therapeutically correct and incorrect measurements in continuous glucose monitoring systems. Biomedical Signal Processing and Control, 2013, 8, 603-614.	5.7	13
76	Identification of intra-patient variability in the postprandial response of patients with type 1 diabetes. Biomedical Signal Processing and Control, 2014, 12, 39-46.	5.7	13
77	Overview of therapeutic applications of non-invasive vagus nerve stimulation: a motivation for novel treatments for systemic lupus erythematosus. Bioelectronic Medicine, 2021, 7, 8.	2.3	13
78	SQualTrack: A Tool for Robust Fault Detection. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 475-488.	5.0	12
79	Experimental blood glucose interval identification of patients with type 1 diabetes. Journal of Process Control, 2014, 24, 171-181.	3.3	12
80	Artificial Pancreas With Carbohydrate Suggestion Performance for Unannounced and Announced Exercise in Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 55-63.	3.6	12
81	A Machine Learning Approach to Minimize Nocturnal Hypoglycemic Events in Type 1 Diabetic Patients under Multiple Doses of Insulin. Sensors, 2022, 22, 1665.	3.8	12
82	Implications of Meal Library & Meal Detection to Glycemic Control of Type 1 Diabetes Mellitus through MPC Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 4228-4233.	0.4	11
83	Improving the Interval Ray Tracing of Implicit Surfaces. Lecture Notes in Computer Science, 2006, , 655-664.	1.3	11
84	A numerical approach to design control invariant sets for constrained nonlinear discrete-time systems with guaranteed optimality. Journal of Global Optimization, 2009, 44, 395-407.	1.8	9
85	Meal Detection in the Artificial Pancreas: Implications During Exercise * *This work was funded by the Spanish Government through grants DPI2013-46982-C2-1-R and DPI2013-46982-C2-2-R, the University of Girona through grant BR2014/51, and the European Union through FEDER Funds.. IFAC-PapersOnLine, 2017, 50, 5462-5467.	0.9	9
86	Dynamic Rule-Based Algorithm to Tune Insulin-on-Board Constraints for a Hybrid Artificial Pancreas System. Journal of Healthcare Engineering, 2020, 2020, 1-11.	1.9	9
87	Generation of Virtual Patient Populations That Represent Real Type 1 Diabetes Cohorts. Mathematics, 2021, 9, 1200.	2.2	9
88	Analysis of the Robustness of Predictive Controllers via Modal Intervals. Reliable Computing, 2000, 6, 281-301.	0.8	8
89	Mid-Term Prediction of Blood Glucose from Continuous Glucose Sensors, Meal Information and Administered Insulin. IFMBE Proceedings, 2016, , 1137-1143.	0.3	8
90	Closed-loop blood glucose control using insulin and carbohydrates in front meals and exercise. IFAC-PapersOnLine, 2017, 50, 2058-2063.	0.9	8

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91	Digital control via interval analysis. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 203-212.	1.1	7
92	Combining Basal-Bolus Insulin Infusion for Tight Postprandial Glucose Control: An in Silico Evaluation in Adults, Children, and Adolescents. Journal of Diabetes Science and Technology, 2010, 4, 1424-1437.	2.2	7
93	Validation of an FBA model for Pichia pastoris in chemostat cultures. BMC Systems Biology, 2014, 8, 142.	3.0	7
94	A Hybrid Clustering Prediction for Type 1 Diabetes Aid: Towards Decision Support Systems Based upon Scenario Profile Analysis. , 2017, , .		7
95	Control de la glucemia durante el ejercicio fÃsico aerÃ³bico y anaerÃ³bico mediante un nuevo sistema de pÃ¡ncreas artificial. Endocrinologia, Diabetes Y NutriciÃ“n, 2018, 65, 342-347.	0.3	7
96	Individual categorisation of glucose profiles using compositional data analysis. Statistical Methods in Medical Research, 2019, 28, 3550-3567.	1.5	7
97	Generation of Individualized Synthetic Data for Augmentation of the Type 1 Diabetes Data Sets Using Deep Learning Models. Sensors, 2022, 22, 4944.	3.8	7
98	Experimental Verification of a Backstepping Controller for Magnetorheological MR Dampers in Structural Control. , 2005, , .		6
99	Prediction of glucose excursions under uncertain parameters and food intake in intensive insulin therapy for type 1 diabetes mellitus. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1770-3.	0.5	6
100	Computing the Risk of Postprandial Hypo- and Hyperglycemia in Type 1 Diabetes Mellitus considering Intrapatient Variability and other Sources of Uncertainty. Journal of Diabetes Science and Technology, 2009, 3, 895-902.	2.2	6
101	A sliding mode predictive control approach to closed-loop glucose control for type 1 diabetes* *Acknowledgements. The authors acknowledge the support, in part, by the Spanish government under the grants DPI-2007-66728-C02-01 and DPI-2007-66728-C02-02, by the European Union through FEDER funds and by the catalan government under grant SGR-00296.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 85-90.	0.4	6
102	Optimal Design for Individual Model Identification based on Ambulatory Continuous Glucose Monitoring in Patients with Type 1 Diabetes. , 2010, , .		6
103	Postprandial performance of DexcomÂ® SEVENÂ® PLUS and MedtronicÂ® ParadigmÂ® Veoâ„¢: Modeling and statistical analysis. Biomedical Signal Processing and Control, 2014, 10, 322-331.	5.7	6
104	PFA toolbox: a MATLAB tool for Metabolic Flux Analysis. BMC Systems Biology, 2016, 10, 46.	3.0	6
105	Postprandial fuzzy adaptive strategy for a hybrid proportional derivative controller for the artificial pancreas. Medical and Biological Engineering and Computing, 2018, 56, 1973-1986.	2.8	6
106	A simulator with realistic and challenging scenarios for virtual T1D patients undergoing CSII and MDI therapy. Journal of Biomedical Informatics, 2022, 132, 104141.	4.3	6
107	Embedding objects into Matlab/Simulink for process supervision. , 0, , .		5
108	Fault Detection in a Pilot Plant Using Interval Models and Multiple Sliding Time Windows. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 681-686.	0.4	5

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109	Semiqualitative Simulation Using Modal Interval Analysis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 7623-7628.	0.4	4
110	A SURVEY OF APPLICATIONS OF INTERVAL ANALYSIS TO ROBUST CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 389-400.	0.4	4
111	Robust control law for a friction-based semiactive controller of a two-span bridge. , 2003, 5057, 524.		4
112	Commentary on â€œPerformance of a Glucose Meter with a Built-in Automated Bolus Calculator versus Manual Bolus Calculation in Insulin-Using Subjectsâ€• Journal of Diabetes Science and Technology, 2012, 6, 345-347.	2.2	4
113	Extensive Assessment of Blood Glucose Monitoring During Postprandial Period and Its Impact on Closed-Loop Performance. Journal of Diabetes Science and Technology, 2017, 11, 1089-1095.	2.2	4
114	Blood glucose monitoring during aerobic and anaerobic physical exercise using a new artificial pancreas system. EndocrinologÃa Diabetes Y NutriciÃ³n (English Ed), 2018, 65, 342-347.	0.2	4
115	Exercise-induced hypoglycemia in type 1 diabetes: in-silico comparison between announced and unannounced strategies in closed-loop control. IFAC-PapersOnLine, 2019, 52, 1000-1005.	0.9	4
116	Fault Tolerant Strategies for Automated Insulin Delivery Considering the Human Component: Current and Future Perspectives. Journal of Diabetes Science and Technology, 2021, 15, 1224-1231.	2.2	4
117	Health Monitoring System (HMS) for structural assessment. Smart Structures and Systems, 2009, 5, 223-240.	1.9	4
118	A Survey on Interval Model Simulators and their Properties Related to Fault Detection. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 7614-7622.	0.4	3
119	Quantified set inversion with applications to control. , 0, , .		3
120	Semiactive backstepping control for vibration attenuation in structures equipped with magnetorheological actuators. , 2006, , .		3
121	Extended PCA visualisation of system damage features under environmental and operational variations. , 2009, , .		3
122	Emotions and Diabetes. Lecture Notes in Computer Science, 2015, , 720-727.	1.3	3
123	Telemedicine and mHealth System for Complex Management in T1DM and T2DM Patients: Results of 6 Months Study. IFMBE Proceedings, 2016, , 1131-1136.	0.3	3
124	Probabilistic Model of Transition between Categories of Glucose Profiles in Patients with Type 1 Diabetes Using a Compositional Data Analysis Approach. Sensors, 2021, 21, 3593.	3.8	3
125	Non-destructive Testing for Assessing Structures by Using Soft-Computing. Lecture Notes in Computer Science, 2006, , 982-991.	1.3	3
126	A Hybrid Automata Approach for Monitoring the Patient in the Loop in Artificial Pancreas Systems. Sensors, 2021, 21, 7117.	3.8	3

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127	Using Interval Methods for Control Systems Design in the Parameter Space. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 353-357.	0.4	2
128	Necessary and sufficient conditions for robust stability using modal intervals. , 0, , .		2
129	Backstepping control of nonlinear building structures with hysteretic and frictional dynamics. , 2007, , .		2
130	Physiology-Based Interval Models: A Framework for Glucose Prediction Under Intra-patient Variability. Lecture Notes in Bioengineering, 2016, , 159-181.	0.4	2
131	Semiactive control of base isolated structures with actuator dynamics. , 2003, , .		2
132	Efficient Ray Tracing Using Interval Analysis. , 2008, , 1351-1360.		2
133	Enhanced algorithm for glucose estimation using the continuous glucose monitoring system. Medical Science Monitor, 2010, 16, MT51-8.	1.1	2
134	A comparison of fuzzy and qualitative control techniques. , 0, , .		1
135	Sliding mode control of structures with uncertain coupled subsystems and actuator dynamics. , 2003, , .		1
136	Nonlinear Model Predictive Control Via Interval Analysis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 1337-1340.	0.4	1
137	Studies about the Atomic Capabilities Concept for Linear Control Systems in Physical Multi-Agent Environments. , 0, , .		1
138	PARAMETER IDENTIFICATION WITH QUANTIFIERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 707-712.	0.4	1
139	Control of constrained nonlinear uncertain discrete-time systemsviarobust controllable sets: a modal interval analysis approach. ESAIM - Control, Optimisation and Calculus of Variations, 2009, 15, 189-204.	1.3	1
140	A learning system for error detection in subcutaneous continuous glucose measurement using Support Vector Machines. , 2010, , .		1
141	A new virtual environment for testing and hardware implementation of closed-loop control algorithms in the artificial pancreas. , 2011, 2011, 385-8.		1
142	Compositional Data Analysis of Glucose Profiles of Type 1 Diabetes Patients. IFAC-PapersOnLine, 2019, 52, 1006-1011.	0.9	1
143	Combining Grammatical Evolution with Modal Interval Analysis: An Application to Solve Problems with Uncertainty. Mathematics, 2021, 9, 631.	2.2	1
144	Marks: A New Interval Tool for Uncertainty, Vagueness and Indiscernibility. Mathematics, 2021, 9, 2116.	2.2	1

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145	Intervals. Lecture Notes in Mathematics, 2014, , 1-16.	0.2	1
146	Interval Arithmetic. Lecture Notes in Mathematics, 2014, , 121-141.	0.2	1
147	Semiactive backstepping control for vibration attenuation in structures equipped with magnetorheological actuators. , 2006, , .		1
148	Combining Symbolic tools with interval analysis. An application to solve robust control problems.. American Journal of Computational Mathematics, 2014, 04, 183-196.	0.5	1
149	El PÃ¡ncreas Artificial: Control AutomÃ¡tico de InfusiÃ³n de Insulina en Diabetes Mellitus Tipo 1. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2010, 7, 5-20.	1.0	1
150	Adaptive Workflows for Diabetes Management: Self-Management Assistant and Remote Treatment for Diabetes. Studies in Health Technology and Informatics, 2017, 237, 151-156.	0.3	1
151	Interval PI Velocity Control of a Non-Holonomic Mobile Robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 379-383.	0.4	0
152	Robust Active Control of Uncertain Flexible Structures. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 61-65.	0.4	0
153	Comparison of Two Software Tools for Damage Identification: Gradient-Based vs. Case-Based Approach. Key Engineering Materials, 2005, 293-294, 103-110.	0.4	0
154	Closed loop glucose control in critical care patients: Previous study for clinical essays. , 2007, , .		0
155	Glucose Control in Critically Ill Patients Using Sliding Mode Control with Robust Differentiators* *Acknowledgements. The authors acknowledge the support, in part, by the Spanish government under the grants DPI-2007-66728-C02-01 and DPI-2007-66728-C02-02, by the European Union through FEDER funds and by the catalan government under grant SGR-00296.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 42, 73-78.	0.4	0
156	On the use of hard/soft specifications to deal with intra-patient variability in postprandial glucose control in type 1 diabetes1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8347-8353.	0.4	0
157	Improving the Computational Effort of Set-Inversion-Based Prandial Insulin Delivery for Its Integration in Insulin Pumps. Journal of Diabetes Science and Technology, 2012, 6, 1420-1428.	2.2	0
158	Identification of intra-patient variability in the postprandial response of patients with type 1 diabetes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 34-39.	0.4	0
159	Using Normalised Compression Distance to Identify Different Profiling Days in Type 1 Diabetic Patientsâˆ—â€”Research presented in this paper is partially supported by the Spanish Ministry of Science and Innovation through grant DPI 2013-46982-C2-2-R and the Government of Catalonia trough grant SGR14-1052.. IFAC-PapersOnLine, 2015, 48, 383-388.	0.9	0
160	Closing the Loop. Diabetes Technology and Therapeutics, 2015, 17, S-27-S-38.	4.4	0
161	Strategies to mitigate hypoglycaemia in the artificial pancreas. , 2019, , 195-217.		0
162	Artificial intelligence-based decision support systems for diabetes. , 2020, , 329-357.		0

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163	Aim and Diabetes. , 2021, , 1-9.		0
164	Guaranteed Adaptive Antialiasing Using Interval Arithmetic. Lecture Notes in Computer Science, 2007, , 166-169.	1.3	0
165	Closed Loop Glycemic Control in Critically Ill Patients: Feasibility Study and Experimental Design. , 2007, , .		0
166	Introspection on control-grounded capabilities. Relevance in task allocation problems. , 2007, , .		0
167	Some Related Problems. Lecture Notes in Mathematics, 2014, , 265-305.	0.2	0
168	Equations and Systems. Lecture Notes in Mathematics, 2014, , 143-158.	0.2	0
169	Aim and Diabetes. , 2022, , 701-709.		0