

# Martina Vettoretti

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,386  
citations

430754

18  
h-index

395590

33  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1209  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Carbohydrate Counting Error on Glycemic Control in Open-Loop Management of Type 1 Diabetes: Quantitative Assessment Through an In Silico Trial. <i>Journal of Diabetes Science and Technology</i> , 2022, 16, 1541-1549.	1.3	8
2	Machine-Learning Based Model to Improve Insulin Bolus Calculation in Type 1 Diabetes Therapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 247-255.	2.5	29
3	Comparing the accuracy of transcutaneous sensor and 90-day implantable glucose sensor. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021, 31, 650-657.	1.1	7
4	Mathematical Models of Meal Amount and Timing Variability With Implementation in the Type-1 Diabetes Patient Decision Simulator. <i>Journal of Diabetes Science and Technology</i> , 2021, 15, 346-359.	1.3	5
5	Forecasting of Glucose Levels and Hypoglycemic Events: Head-to-Head Comparison of Linear and Nonlinear Data-Driven Algorithms Based on Continuous Glucose Monitoring Data Only. <i>Sensors</i> , 2021, 21, 1647.	2.1	27
6	Hypoglycaemia detection and prediction techniques: A systematic review on the latest developments. <i>Diabetes/Metabolism Research and Reviews</i> , 2021, 37, e3449.	1.7	23
7	A Dynamic Bayesian Network model for simulating the progression to diabetes onset in the ageing population. , 2021, , .		2
8	Design of clinical trials to assess diabetes treatment: Minimum duration of continuous glucose monitoring data to estimate time in range with the desired precision. <i>Diabetes, Obesity and Metabolism</i> , 2021, 23, 2446-2454.	2.2	10
9	A Variable Ranking Method for Machine Learning Models with Correlated Features: In-Silico Validation and Application for Diabetes Prediction. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7740.	1.3	4
10	Data Gap Modeling in Continuous Glucose Monitoring Sensor Data. , 2021, 2021, 4379-4382.		3
11	Choosing the duration of continuous glucose monitoring for reliable assessment of time in range: A new analytical approach to overcome the limitations of correlation-based methods. <i>Diabetic Medicine</i> , 2021, , e14758.	1.2	1
12	Advanced Diabetes Management Using Artificial Intelligence and Continuous Glucose Monitoring Sensors. <i>Sensors</i> , 2020, 20, 3870.	2.1	57
13	Addressing practical issues of predictive models translation into everyday practice and public health management: a combined model to predict the risk of type 2 diabetes improves incidence prediction and reduces the prevalence of missing risk predictions. <i>BMJ Open Diabetes Research and Care</i> , 2020, 8, e001223.	1.2	3
14	An analytical approach to determine the optimal duration of continuous glucose monitoring data required to reliably estimate time in hypoglycemia. <i>Scientific Reports</i> , 2020, 10, 18180.	1.6	9
15	Modeling the SMBG measurement error. , 2020, , 79-108.		0
16	Calibration of CGM systems. , 2020, , 173-201.		1
17	A practical perspective on the concordance index for the evaluation and selection of prognostic time-to-event models. <i>Journal of Biomedical Informatics</i> , 2020, 108, 103496.	2.5	95
18	Modeling Carbohydrate Counting Error in Type 1 Diabetes Management. <i>Diabetes Technology and Therapeutics</i> , 2020, 22, 749-759.	2.4	28

#	ARTICLE	IF	CITATIONS
19	877-P: Limits of Correlation Coefficient Analysis in Determining the Minimal Duration of CGM Data Needed to Estimate Time Below Range. <i>Diabetes</i> , 2020, 69, .	0.3	4
20	In Silico Assessment of Literature Insulin Bolus Calculation Methods Accounting for Glucose Rate of Change. <i>Journal of Diabetes Science and Technology</i> , 2019, 13, 103-110.	1.3	15
21	A Real-Time Continuous Glucose Monitoring-Based Algorithm to Trigger Hypotreatments to Prevent/Mitigate Hypoglycemic Events. <i>Diabetes Technology and Therapeutics</i> , 2019, 21, 644-655.	2.4	16
22	Combining continuous glucose monitoring and insulin pumps to automatically tune the basal insulin infusion in diabetes therapy: a review. <i>BioMedical Engineering OnLine</i> , 2019, 18, 37.	1.3	29
23	Continuous Glucose Monitoring Sensors for Diabetes Management: A Review of Technologies and Applications. <i>Diabetes and Metabolism Journal</i> , 2019, 43, 383.	1.8	232
24	Development of an Error Model for a Factory-Calibrated Continuous Glucose Monitoring Sensor with 10-Day Lifetime. <i>Sensors</i> , 2019, 19, 5320.	2.1	23
25	Modeling the error of factory-calibrated continuous glucose monitoring sensors: application to Dexcom G6 sensor data. , 2019, 2019, 750-753.		2
26	In-silico Assessment of Preventive Hypotreatment Efficacy and Development of a Continuous Glucose Monitoring Based Algorithm to Prevent/Mitigate Hypoglycemia in Type 1 Diabetes. , 2019, 2019, 4133-4136.		1
27	Type-1 Diabetes Patient Decision Simulator for In Silico Testing Safety and Effectiveness of Insulin Treatments. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1281-1290.	2.5	73
28	A Neural-Network-Based Approach to Personalize Insulin Bolus Calculation Using Continuous Glucose Monitoring. <i>Journal of Diabetes Science and Technology</i> , 2018, 12, 265-272.	1.3	53
29	The UVA/Padova Type 1 Diabetes Simulator Goes From Single Meal to Single Day. <i>Journal of Diabetes Science and Technology</i> , 2018, 12, 273-281.	1.3	169
30	Toward Calibration-Free Continuous Glucose Monitoring Sensors: Bayesian Calibration Approach Applied to Next-Generation Dexcom Technology. <i>Diabetes Technology and Therapeutics</i> , 2018, 20, 59-67.	2.4	14
31	Reduction of Blood Glucose Measurements to Calibrate Subcutaneous Glucose Sensors: A Bayesian Multiday Framework. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 587-595.	2.5	24
32	Importance of Recalibrating Models for Type 2 Diabetes Onset Prediction: Application of the Diabetes Population Risk Tool on the Health and Retirement Study. , 2018, 2018, 5358-5361.		3
33	Optimal Insulin Bolus Dosing in Type 1 Diabetes Management: Neural Network Approach Exploiting CGM Sensor Information. , 2018, 2018, 1-4.		1
34	A Model of Acetaminophen Pharmacokinetics and its Effect on Continuous Glucose Monitoring Sensor Measurements. , 2018, 2018, 159-162.		2
35	Continuous Glucose Monitoring: Current Use in Diabetes Management and Possible Future Applications. <i>Journal of Diabetes Science and Technology</i> , 2018, 12, 1064-1071.	1.3	68
36	Calibration of Minimally Invasive Continuous Glucose Monitoring Sensors: State-of-The-Art and Current Perspectives. <i>Biosensors</i> , 2018, 8, 24.	2.3	72

#	ARTICLE	IF	CITATIONS
37	A Model of Self-Monitoring Blood Glucose Measurement Error. <i>Journal of Diabetes Science and Technology</i> , 2017, 11, 724-735.	1.3	15
38	Wearable Continuous Glucose Monitoring Sensors: A Revolution in Diabetes Treatment. <i>Electronics (Switzerland)</i> , 2017, 6, 65.	1.8	153
39	Personalized blood glucose prediction: A hybrid approach using grammatical evolution and physiological models. <i>PLoS ONE</i> , 2017, 12, e0187754.	1.1	56
40	From Two to One Per Day Calibration of Dexcom G4 Platinum by a Time-Varying Day-Specific Bayesian Prior. <i>Diabetes Technology and Therapeutics</i> , 2016, 18, 472-479.	2.4	16
41	Predicting Insulin Treatment Scenarios with the Net Effect Method: Domain of Validity. <i>Diabetes Technology and Therapeutics</i> , 2016, 18, 694-704.	2.4	12
42	Online Calibration of Glucose Sensors From the Measured Current by a Time-Varying Calibration Function and Bayesian Priors. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1631-1641.	2.5	21