

Niels Kj ,lstad Poulsen

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

714
citations

623734

14
h-index

580821

25
g-index

42
all docs

42
docs citations

42
times ranked

619
citing authors

#	ARTICLE	IF	CITATIONS
1	Greybox model for multistage spray drying plants constrained to small datasets. <i>Advanced Control for Applications</i> , 2021, 3, .	1.7	3
2	Load-â€‘frequency control in microgrids using target-â€‘adjusted MPC. <i>IET Renewable Power Generation</i> , 2020, 14, 118-124.	3.1	14
3	Model predictive control for dose guidance in long acting insulin treatment of type 2 diabetes. <i>IFAC Journal of Systems and Control</i> , 2019, 9, 100067.	1.7	15
4	Control-oriented greybox noise structure of multi-stage spray dryers for data-driven tuning of kalman filter. , 2019, , .		1
5	Efficient Computation of the Continuous-Discrete Extended Kalman Filter Sensitivities Applied to Maximum Likelihood Estimation. , 2019, , .		0
6	Sensor-based detection and estimation of meal carbohydrates for people with diabetes. <i>Biomedical Signal Processing and Control</i> , 2019, 48, 12-25.	5.7	19
7	Possible power of down-â€‘regulated offshore wind power plants: The PossPOW algorithm. <i>Wind Energy</i> , 2019, 22, 205-218.	4.2	8
8	Ancillary Services 4.0: A Top-to-Bottom Control-Based Approach for Solving Ancillary Services Problems in Smart Grids. <i>IEEE Access</i> , 2018, 6, 11694-11706.	4.2	37
9	Overnight glucose control in people with type 1 diabetes. <i>Biomedical Signal Processing and Control</i> , 2018, 39, 503-512.	5.7	40
10	An automated meal detector and bolus calculator in combination with closed-loop blood glucose control. <i>IFAC-PapersOnLine</i> , 2018, 51, 168-173.	0.9	2
11	Adaptive model predictive control for a dual-hormone artificial pancreas. <i>Journal of Process Control</i> , 2018, 68, 105-117.	3.3	31
12	Adaptive control in an artificial pancreas for people with type 1 diabetes. <i>Control Engineering Practice</i> , 2017, 58, 332-342.	5.5	67
13	Fault and meal detection by redundant continuous glucose monitors and the unscented Kalman filter. <i>Biomedical Signal Processing and Control</i> , 2017, 38, 86-99.	5.7	32
14	Adaptive Unscented Kalman Filter using Maximum Likelihood Estimation * *This work is funded by the Danish Diabetes Academy supported by the Novo Nordisk Foundation.. <i>IFAC-PapersOnLine</i> , 2017, 50, 3859-3864.	0.9	8
15	An experimentally validated simulation model for a four-stage spray dryer. <i>Journal of Process Control</i> , 2017, 57, 50-65.	3.3	13
16	Comparison of three control strategies for optimization of spray dryer operation. <i>Journal of Process Control</i> , 2017, 57, 1-14.	3.3	28
17	An Adaptive Nonlinear Basal-Bolus Calculator for Patients With Type 1 Diabetes. <i>Journal of Diabetes Science and Technology</i> , 2017, 11, 29-36.	2.2	25
18	On the significance of the noise model for the performance of a linear MPC in closed-loop operation. <i>IFAC-PapersOnLine</i> , 2016, 49, 171-176.	0.9	9

#	ARTICLE	IF	CITATIONS
19	Model Identification using Continuous Glucose Monitoring Data for Type 1 Diabetes. IFAC-PapersOnLine, 2016, 49, 759-764.	0.9	22
20	A Bolus Calculator Based on Continuous-Discrete Unscented Kalman Filtering for Type 1 Diabetics—Funded by the Danish Diabetes Academy supported by the Novo Nordisk Foundation. Contact information: John Bagterp Jørgensen (jbjo@dtu.dk).. IFAC-PapersOnLine, 2015, 48, 159-164.	0.9	6
21	Comparison of Prediction Models for a Dual-Hormone Artificial Pancreas—Funded by the Danish Diabetes Academy supported by the Novo Nordisk Foundation. Contact information: John Bagterp Jørgensen (jbjo@dtu.dk).. IFAC-PapersOnLine, 2015, 48, 7-12.	0.9	12
22	Economic optimization of spray dryer operation using Nonlinear Model Predictive Control. , 2014, , .		9
23	Wind Speed Estimation and Parametrization of Wake Models for Downregulated Offshore Wind Farms within the scope of PossPOW Project. Journal of Physics: Conference Series, 2014, 524, 012156.	0.4	15
24	Assessment of Model Predictive and Adaptive Glucose Control Strategies for People with Type 1 Diabetes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 231-236.	0.4	6
25	Model-Based Closed-Loop Glucose Control in Type 1 Diabetes: The DiaCon Experience. Journal of Diabetes Science and Technology, 2013, 7, 1255-1264.	2.2	30
26	Tuning of Controller for Type 1 Diabetes Treatment with Stochastic Differential Equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 46-51.	0.4	4
27	Overnight Control of Blood Glucose in People with Type 1 Diabetes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 73-78.	0.4	25
28	Tuning SISO offset-free Model Predictive Control based on ARX models. Journal of Process Control, 2012, 22, 1997-2007.	3.3	48
29	Strategies for Glucose Control in People with Type 1 Diabetes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3765-3770.	0.4	7
30	Adaptive disturbance estimation for offset-free SISO Model Predictive Control. , 2011, , .		6
31	Optimal Insulin Administration for People with Type 1 Diabetes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 248-253.	0.4	11
32	Meal Estimation in Nonlinear Model Predictive Control for Type 1 Diabetes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1052-1057.	0.4	5
33	Tuning of methods for offset free MPC based on ARX model representations. , 2010, , .		18
34	Robust model identification applied to type 1 diabetes. , 2010, , .		9
35	Data driven tuning of state space controllers with observes. , 2009, , .		3
36	Data Driven Tuning of State Space Control loops with unknown state information and model uncertainty.. Computer Aided Chemical Engineering, 2009, 26, 441-446.	0.5	7

#	ARTICLE	IF	CITATIONS
37	A generalized autocovariance least-squares method for Kalman filter tuning. Journal of Process Control, 2008, 18, 769-779.	3.3	85
38	Grey-box modelling of aeration tank settling. Water Research, 2002, 36, 1887-1895.	11.3	4
39	Grey box modeling of first flush and incoming wastewater at a wastewater treatment plant. Environmetrics, 2000, 11, 1-12.	1.4	12
40	Identification of wastewater treatment processes for nutrient removal on a full-scale WWTP by statistical methods. Water Research, 1994, 28, 2055-2066.	11.3	9
41	Grey box modelling in two time domains of a wastewater pilot scale plant. Environmetrics, 1993, 4, 187-208.	1.4	9