

Benoit Boulet

List of Publications by Year in descending order

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papers

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687363

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57
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57
times ranked

794
citing authors

#	ARTICLE	IF	CITATIONS
1	Structured Learning of Safety Guarantees for the Control of Uncertain Dynamical Systems. IEEE Transactions on Intelligent Vehicles, 2023, 8, 868-877.	12.7	4
2	Learning-Based Synthesis of Robust Linear Time-Invariant Controllers. IEEE Transactions on Intelligent Vehicles, 2023, 8, 1742-1750.	12.7	0
3	Improving gearshift controllers for electric vehicles with reinforcement learning. Mechanism and Machine Theory, 2022, 169, 104654.	4.5	5
4	Building Energy Management With Reinforcement Learning and Model Predictive Control: A Survey. IEEE Access, 2022, 10, 27853-27862.	4.2	30
5	A Model-Based Insulin Dose Optimization Algorithm for People With Type 1 Diabetes on Multiple Daily Injections Therapy. IEEE Transactions on Biomedical Engineering, 2021, 68, 1208-1219.	4.2	9
6	Spatial-Temporal Residential Short-Term Load Forecasting via Graph Neural Networks. IEEE Transactions on Smart Grid, 2021, 12, 5373-5384.	9.0	74
7	Fundamental limitations to no-jerk gearshifts of multi-speed transmission architectures in electric vehicles. Mechanism and Machine Theory, 2021, 160, 104290.	4.5	9
8	EV Fleet as Virtual Battery Resource for Community Microgrid Energy Storage Planning. Canadian Journal of Electrical and Computer Engineering, 2021, 44, 431-442.	2.0	4
9	Parameter identification of transport PDE/nonlinear ODE cascade model for polymer extrusion with varying die gap. Canadian Journal of Chemical Engineering, 2021, 99, 1158-1176.	1.7	2
10	Multiple Kernel Learning-Based Transfer Regression for Electric Load Forecasting. IEEE Transactions on Smart Grid, 2020, 11, 1183-1192.	9.0	93
11	Centralized model predictive control strategy for thermal comfort and residential energy management. Energy, 2020, 212, 118456.	8.8	30
12	A Review of Recent Advances on Reinforcement Learning for Smart Home Energy Management. , 2020, , .		5
13	A Q-Learning Based Charging Scheduling Scheme for Electric Vehicles. , 2019, , .		30
14	Coordination of radiant floor and baseboard heating systems: Sequential and simultaneous MPC schemes. Science and Technology for the Built Environment, 2019, 25, 1419-1436.	1.7	2
15	An Unannounced Meal Detection Module for Artificial Pancreas Control Systems. , 2019, , .		7
16	Modeling, analysis and constrained control of wet cone clutch systems: A synchromesh case study. Mechatronics, 2018, 49, 92-104.	3.3	8
17	A Sensor-less Catheter Contact Force Estimation Approach in Endovascular Intervention Procedures. , 2018, , .		17
18	Modeling polymer extrusion with varying die gap using Arbitrary Lagrangian Eulerian (ALE) method. Physics of Fluids, 2018, 30, 093103.	4.0	7

#	ARTICLE	IF	CITATIONS
19	Two-Stage Energy Management for Office Buildings With Workplace EV Charging and Renewable Energy. IEEE Transactions on Transportation Electrification, 2017, 3, 225-237.	7.8	167
20	Boosting Based Multiple Kernel Learning and Transfer Regression for Electricity Load Forecasting. Lecture Notes in Computer Science, 2017, , 39-51.	1.3	23
21	Computer Simulation Model to Train Medical Personnel on Glucose Clamp Procedures. Canadian Journal of Diabetes, 2017, 41, 485-490.	0.8	1
22	MECHATRONICS DESIGN OF AN X-BY-WIRE PROTOTYPE OF AN ELECTRIC VEHICLE. Transactions of the Canadian Society for Mechanical Engineering, 2016, 40, 231-242.	0.8	0
23	Impact Analysis of Controllable Home Appliances and EVs on Neighbourhood Level Network with Smart Control. World Electric Vehicle Journal, 2016, 8, 543-552.	3.0	0
24	Design of a Modular Swift-shift Multi-speed Transmission with Double Dual Clutches for Electric Vehicles. World Electric Vehicle Journal, 2016, 8, 184-195.	3.0	1
25	Implementation of an Adjustable Target Modulation Index for a Variable DC Voltage Control in an Electric Delivery Truck. World Electric Vehicle Journal, 2016, 8, 1020-1027.	3.0	1
26	Battery voltage optimization of a variable DC bus voltage control powertrain for medium duty delivery trucks for various drive cycles. , 2016, , .		2
27	Analytical Calculation of the Magnetic Vector Potential of an Axisymmetric Solenoid in the Presence of Iron Parts. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	6
28	Estimation of the State Variables and Unknown Input of a Two-Speed Electric Vehicle Driveline Using Fading-Memory Kalman Filter. IEEE Transactions on Transportation Electrification, 2016, 2, 210-220.	7.8	23
29	Comparison and analysis of the effects of various improved turbocharging approaches on gasoline engine transient performances. Applied Thermal Engineering, 2016, 93, 797-812.	6.0	37
30	Effects of Target Modulation Index on Variable DC Voltage Control for Electric Powertrains in Medium Duty Delivery Trucks. , 2015, , .		2
31	Application of a bidirectional DC-DC in an electric powertrain for medium duty delivery trucks. , 2015, , .		4
32	Seamless dual brake transmission for electric vehicles: Design, control and experiment. Mechanism and Machine Theory, 2015, 94, 96-118.	4.5	67
33	Interleaved PWM control for neutral point balancing in dual 3-level traction drives. , 2014, , .		4
34	Neighborhood level network aware electric vehicle charging management with mixed control strategy. , 2014, , .		3
35	Understanding the Benefits of Glucagon in the Artificial Pancreas: Randomized Crossover Trial. Canadian Journal of Diabetes, 2014, 38, S16.	0.8	0
36	Model-Based Virtual Sensors and Core-Temperature Observers in Thermoforming Applications. IEEE Transactions on Industry Applications, 2013, 49, 721-730.	4.9	9

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37	Iterative learning model predictive controller of plastic sheet temperature for a thermoforming process. , 2012, , .		7
38	Optical parametric oscillator longitudinal modes suppression based on Smith predictor control scheme. , 2012, , .		2
39	Estimating postprandial glucose fluxes using hierarchical Bayes modelling. Computer Methods and Programs in Biomedicine, 2012, 108, 102-112.	4.7	11
40	Real-time Control of Angioplasty Balloon Inflation Based on Feedback from Intravascular Optical Coherence Tomography: Experimental Validation on an Excised Heart and a Beating Heart Model. IEEE Transactions on Biomedical Engineering, 2012, 59, 1488-1495.	4.2	4
41	Robust controller order reduction. International Journal of Control, 2011, 84, 985-997.	1.9	5
42	Enabling high droop gain for improvement of reactive power sharing accuracy in an electronically-interfaced autonomous microgrid. , 2011, , .		10
43	Angioplasty balloon deployment control. , 2010, , .		1
44	A New Method for Estimation and Control of Temperature Profile over a Sheet in Thermoforming Process. , 2010, , .		6
45	A Conjugate Gradient Method for the Solution of the Inverse Heating Problem in Thermoforming. , 2010, , .		0
46	Robust SISO controller order reduction. , 2009, , .		1
47	Robust controller order reduction. , 2009, , .		7
48	Design of an H _∞ controller for energy storage in a wind-diesel system. , 2009, , .		0
49	Control of an Overactuated Cable-Driven Parallel Mechanism for a Radio Telescope Application. IEEE Transactions on Control Systems Technology, 2009, 17, 1043-1054.	5.2	71
50	Piece-wise linear DFT interpolation for IIR systems: Performance and error bound computation. , 2008, , .		0
51	Robust Design of Terminal ILC with Sensitivity Approach for a Thermoforming Oven. Journal of Control Science and Engineering, 2008, 1-6.	1.0	14
52	Data Fusion based on RBF Neural Network for Error Compensation in Resistance Strain Gauge Force Transducers. , 2007, , .		3
53	Agent-based control of manufacturing processes. International Journal of Manufacturing Research, 2006, 1, 466.	0.2	5
54	Robust output feedback stabilization of uncertain time-varying state-delayed systems with saturating actuators. International Journal of Control, 2004, 77, 399-414.	1.9	26

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55	Uncertainty Models and Robust Complex-Rational Controller Design for Flexible Structures. Journal of Guidance, Control, and Dynamics, 2003, 26, 530-535.	2.8	3
56	Scheduling schemes for an integrated flight and propulsion control system. Control Engineering Practice, 2002, 10, 685-696.	5.5	25