

M C F Donkers

List of Publications by Year in descending order

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79
papers

4,229
citations

430442

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197535

49
g-index

79
all docs

79
docs citations

79
times ranked

2577
citing authors

#	ARTICLE	IF	CITATIONS
1	Periodic Event-Triggered Control for Linear Systems. IEEE Transactions on Automatic Control, 2013, 58, 847-861.	3.6	1,046
2	Output-Based Event-Triggered Control With Guaranteed \mathcal{L}_∞ -Gain and Improved and Decentralized Event-Triggering. IEEE Transactions on Automatic Control, 2012, 57, 1362-1376.	3.6	737
3	Model-based periodic event-triggered control for linear systems. Automatica, 2013, 49, 698-711.	3.0	510
4	Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. IEEE Transactions on Automatic Control, 2011, 56, 2101-2115.	3.6	458
5	Stability analysis of stochastic networked control systems. Automatica, 2012, 48, 917-925.	3.0	196
6	Self-triggered linear quadratic control. Automatica, 2014, 50, 1279-1287.	3.0	138
7	Iterative Learning Control for uncertain systems: Robust monotonic convergence analysis. Automatica, 2009, 45, 2383-2391.	3.0	99
8	Output-based event-triggered control with Guaranteed \mathcal{L}_∞ -gain and improved event-triggering. , 2010, , .		75
9	A comparison and accuracy analysis of impedance-based temperature estimation methods for Li-ion batteries. Applied Energy, 2016, 175, 128-140.	5.1	68
10	Decentralized observer-based control via networked communication. Automatica, 2013, 49, 2074-2086.	3.0	64
11	Parameter estimation of an electrochemistry-based lithium-ion battery model using a two-step procedure and a parameter sensitivity analysis. International Journal of Energy Research, 2018, 42, 2417-2430.	2.2	64
12	Periodic event-triggered control based on state feedback. , 2011, , .		63
13	A Global Optimal Solution to the Eco-Driving Problem. , 2018, 2, 599-604.		45
14	Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. Lecture Notes in Computer Science, 2009, , 150-164.	1.0	41
15	Joint Estimation of Battery Parameters and State of Charge Using an Extended Kalman Filter: A Single-Parameter Tuning Approach. IEEE Transactions on Control Systems Technology, 2021, 29, 1087-1101.	3.2	39
16	Stability analysis of networked and quantized linear control systems. Nonlinear Analysis: Hybrid Systems, 2013, 10, 111-125.	2.1	36
17	Minimum attention control for linear systems. Discrete Event Dynamic Systems: Theory and Applications, 2014, 24, 199-218.	0.6	33
18	A computationally efficient implementation of a full and reduced-order electrochemistry-based model for Li-ion batteries. Applied Energy, 2017, 208, 1285-1296.	5.1	33

#	ARTICLE	IF	CITATIONS
19	Optimal control for integrated emission management in diesel engines. <i>Control Engineering Practice</i> , 2017, 61, 206-216.	3.2	30
20	Robustness against model uncertainties of norm optimal iterative learning control. , 2008, , .		27
21	Iterative learning control for uncertain systems: Noncausal finite time interval robust control design. <i>International Journal of Robust and Nonlinear Control</i> , 2011, 21, 1645-1666.	2.1	27
22	Parameter estimation of the Doyleâ€“Fullerâ€“Newman model for Lithium-ion batteries by parameter normalization, grouping, and sensitivity analysis. <i>Journal of Power Sources</i> , 2021, 499, 229901.	4.0	26
23	Towards impedanceâ€“based temperature estimation for Liâ€“ion battery packs. <i>International Journal of Energy Research</i> , 2020, 44, 2889-2908.	2.2	19
24	An Improved Impedance-Based Temperature Estimation Method for Li-ion Batteriesâ€“—â€“This work has received financial support from the H2020 programme of the European Commission under the grant 3CCar and from Dutch Ministry of Economic Affairs under the grant ADEM (A green Deal in Energy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.5	18
25	Model simplifications and their impact on computational complexity for an electrochemistry-based battery modeling toolbox. <i>Journal of Power Sources</i> , 2021, 488, 229427.	4.0	17
26	Vehicle Energy Management with Ecodriving: A Sequential Quadratic Programming Approach with Dual Decomposition. , 2018, , .		16
27	Distributed Control of Active Cell Balancing and Low-Voltage Bus Regulation in Electric Vehicles Using Hierarchical Model-Predictive Control. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 10464-10473.	5.2	16
28	On the minimum attention control problem for linear systems: A linear programming approach. , 2011, , .		15
29	Crosstalk Interferences on Impedance Measurements in Battery Packs * * This work has received financial support from the Dutch Ministry of Economic Affairs under the grant A green Deal in Energy Materials (ADEM) and from the Horizon 2020 programme of the European Union under the grant Integrated Components for Complexity Control in affordable electrified cars (3Ccar-662192).. <i>IFAC-PapersOnLine</i> , 2016, 49, 42-47.	0.5	14
30	Game-Theoretic Approach for Complete Vehicle Energy Management. , 2014, , .		13
31	Event-triggered control for discrete-time linear parameter-varying systems. , 2016, , .		12
32	Eventâ€“triggered constant reference tracking control for discreteâ€“time LPV systems with application to a laboratory tank system. <i>IET Control Theory and Applications</i> , 2017, 11, 2680-2687.	1.2	11
33	Robust cylinder pressure estimation in heavy-duty diesel engines. <i>International Journal of Engine Research</i> , 2018, 19, 179-188.	1.4	11
34	A Shrinking Horizon Approach to Eco-driving for Electric City Buses: Implementation and Experimental Results. <i>IFAC-PapersOnLine</i> , 2019, 52, 556-561.	0.5	11
35	Systematic Design of Multivariable Fuel Injection Controllers for Advanced Diesel Combustion. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 1979-1990.	3.2	11
36	A Distributed Optimization Approach for Complete Vehicle Energy Management. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 964-980.	3.2	11

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37	Receding Horizon Control for Distributed Energy Management of a Hybrid Heavy-Duty Vehicle with Auxiliaries. IFAC-PapersOnLine, 2015, 48, 203-208.	0.5	10
38	Robust constrained optimization for RCCI engines using nested penalized particle swarm. Control Engineering Practice, 2020, 99, 104411.	3.2	10
39	Real-Time Distributed Economic Model Predictive Control for Complete Vehicle Energy Management. Energies, 2017, 10, 1096.	1.6	9
40	Range Maximisation of Electric Vehicles through Active Cell Balancing using Reachability Analysis. , 2019, , .		9
41	Real-Time Range Maximisation of Electric Vehicles through Active Cell Balancing using Model-Predictive Control. , 2020, , .		9
42	Optimal Control of Active Cell Balancing: Extending the Range and Useful Lifetime of a Battery Pack. IEEE Transactions on Control Systems Technology, 2022, 30, 2759-2766.	3.2	9
43	Networked Control Systems Toolbox: Robust Stability Analysis Made Easy. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 55-60.	0.4	8
44	Eco-Driving for Energy Efficient Cornering of Electric Vehicles in Urban Scenarios. IFAC-PapersOnLine, 2020, 53, 13816-13821.	0.5	8
45	A dual decomposition approach to complete energy management for a heavy-duty vehicle. , 2014, , .		7
46	A Computationally Efficient Implementation of an Electrochemistry-Based Model for Lithium-Ion Batteries * *This work has received financial support from the Horizon 2020 programme of the European Union under the grant "Integrated Components for Complexity Control in affordable electrified cars (3Ccar-662192)" and under the grant "Electric Vehicle Enhanced Range, Lifetime And Safety Through INGenious battery management (EVERLASTING-713771)". IFAC-PapersOnLine, 2017, 50, 2169-2174.	0.5	7
47	Decentralized static output-feedback control via networked communication. , 2012, , .		6
48	Dynamic Programming for Integrated Emission Management in Diesel Engines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11860-11865.	0.4	6
49	An Equivalent Consumption Minimisation Strategy based on 1-Step Look-Ahead Stochastic Dynamic Programming—This work has received financial support from the FP7 of the European Commission under the grant CONVENIENT (312314).. IFAC-PapersOnLine, 2015, 48, 72-77.	0.5	6
50	On Experiment Design for Parameter Estimation of Equivalent-Circuit Battery Models. , 2018, , .		6
51	A design approach for noncausal robust Iterative Learning Control using worst case disturbance optimisation. , 2008, , .		5
52	Virtual Cylinder Pressure Sensor for Transient Operation in Heavy-Duty Engines. SAE International Journal of Engines, 0, 8, 1029-1040.	0.4	5
53	LMI-Based Robust Observer Design for Battery State-of-Charge Estimation. , 2018, , .		5
54	H_{∞}-Norm-Based Multi-Pulse Diesel Fuel Injection Control With Minimal Cyclic Combustion Variation. , 2018, 2, 309-314.		5

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55	A Model Predictive Control Approach for Stochastic Networked Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 7-12.	0.4	4
56	Output-Based Controller Synthesis for Networked Control Systems with Periodic Protocols and Time-Varying Transmission Intervals and Delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6478-6483.	0.4	4
57	On Trade-offs Between Computational Complexity and Accuracy of Electrochemistry-based Battery Models. , 2019, , .		4
58	$\frac{H}{\mathbb{H}^{\tilde{z}}}$ and $\frac{H}{\mathbb{H}^{\tilde{z}}}$	3.0	4
59	Optimal Control of Diesel Engines with Waste Heat Recovery System. Lecture Notes in Control and Information Sciences, 2014, , 237-253.	0.6	4
60	Stability analysis of networked control systems with periodic protocols and uniform quantizers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 186-191.	0.4	3
61	Complete Vehicle Energy Management with large horizon optimization. , 2015, , .		3
62	Global Solutions to the Complete Vehicle Energy Management Problem via Forward-Backward Operator Splitting. , 2019, , .		3
63	Towards State-of-Charge Estimation for Battery Packs: Reducing Computational Complexity by Optimising Model Sampling Time and Update Frequency of the Extended Kalman Filter. , 2021, , .		3
64	Modeling and Control of a Radio-Controlled Model Racing Car. IFAC-PapersOnLine, 2017, 50, 9162-9167.	0.5	2
65	A Port-Hamiltonian Approach to Complete Vehicle Energy Management: A Battery Electric Vehicle Case Study. , 2020, , .		2
66	Traffic-Aware Vehicle Energy Management Strategies via Scenario-Based Optimization. IFAC-PapersOnLine, 2020, 53, 14217-14223.	0.5	2
67	Empirical Battery Modelling for High Currents: The Effect of Nonlinear Overpotential and Inevitable Self-Heating. IFAC-PapersOnLine, 2020, 53, 12440-12445.	0.5	2
68	Multi-pulse fuel injection controller design using a quadratic model. , 2016, , .		1
69	Decentralised robust controller synthesis for discrete-time polytopic systems with additive uncertainty using an iterative-LMI approach. , 2017, , .		1
70	Effects of Battery Charge Acceptance and Battery Aging in Complete Vehicle Energy Management * *This work has received financial support from the Horizon 2020 programme of the European Union under the grant "Electric Vehicle Enhanced Range, Lifetime And Safety Through Ingenious battery management" (EVERLASTING-713771). IFAC-PapersOnLine, 2017, 50, 2145-2151.	0.5	1
71	Joint State and Parameter Estimation for Discrete-Time Polytopic Linear Parameter-Varying Systems * *This work has received financial support from the H2020 programme of the European Commission under the grant 3CCar (grant no.662192). IFAC-PapersOnLine, 2017, 50, 9778-9783.	0.5	1
72	Ageing-Aware Charging of Lithium-ion Batteries Using an Electrochemistry-Based Model with Capacity-Loss Side Reactions. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
73	Ageing-Aware Charging of Lithium-ion Batteries Using a Surrogate Model. , 2021, , .		1
74	Energy Optimal Coordination of Fully Autonomous Vehicles in Urban Intersections. IFAC-PapersOnLine, 2020, 53, 15090-15095.	0.5	1
75	Decomposition-Based Integrated Optimal Electric Powertrain Design. IEEE Transactions on Vehicular Technology, 2022, 71, 6044-6058.	3.9	1
76	Excitation Allocation for Generic Identifiability of Linear Dynamic Networks With Fixed Modules. , 2022, 6, 2587-2592.		1
77	H ∞ Optimal Sampled-data Controller Synthesis with Generalised Disturbance and Performance Channels. , 2019, , .		0
78	Cycle-to-Cycle Multipulse Fuel-Injection Control for Advanced Diesel Combustion in Changing and Disturbed Operating Points. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, .	0.9	0
79	Erratum to "A Global Optimal Solution to the Eco-Driving Problem", 2022, 6, 1567-1567.		0