

Bart Besselink

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/93041/publications.pdf>

Version: 2024-02-01

39
papers

1,316
citations

687335

13
h-index

610883

24
g-index

39
all docs

39
docs citations

39
times ranked

1007
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative Look-Ahead Control for Fuel-Efficient and Safe Heavy-Duty Vehicle Platooning. IEEE Transactions on Control Systems Technology, 2017, 25, 12-28.	5.2	285
2	Heavy-Duty Vehicle Platooning for Sustainable Freight Transportation: A Cooperative Method to Enhance Safety and Efficiency. IEEE Control Systems, 2015, 35, 34-56.	0.8	269
3	String Stability and a Delay-Based Spacing Policy for Vehicle Platoons Subject to Disturbances. IEEE Transactions on Automatic Control, 2017, 62, 4376-4391.	5.7	230
4	A Semi-Analytical Study of Stick-Slip Oscillations in Drilling Systems. Journal of Computational and Nonlinear Dynamics, 2011, 6, .	1.2	82
5	Cyber-Physical Control of Road Freight Transport. Proceedings of the IEEE, 2016, 104, 1128-1141.	21.3	71
6	Analysis and Control of Stick-Slip Oscillations in Drilling Systems. IEEE Transactions on Control Systems Technology, 2016, 24, 1582-1593.	5.2	62
7	Model Reduction for Nonlinear Systems by Incremental Balanced Truncation. IEEE Transactions on Automatic Control, 2014, 59, 2739-2753.	5.7	48
8	Model reduction for nonlinear systems with incremental gain or passivity properties. Automatica, 2013, 49, 861-872.	5.0	32
9	Stability Analysis of Monotone Systems via Max-Separable Lyapunov Functions. IEEE Transactions on Automatic Control, 2018, 63, 643-656.	5.7	28
10	Clustering-Based Model Reduction of Networked Passive Systems. IEEE Transactions on Automatic Control, 2016, 61, 2958-2973.	5.7	27
11	Scalable Input-to-State Stability for Performance Analysis of Large-Scale Networks. , 2018, 2, 507-512.		19
12	Contraction Analysis of Monotone Systems via Separable Functions. IEEE Transactions on Automatic Control, 2020, 65, 3486-3501.	5.7	17
13	Existence of decentralized controllers for vehicle platoons: On the role of spacing policies and available measurements. Systems and Control Letters, 2020, 145, 104796.	2.3	17
14	On Time Headway Selection in Platoons Under the MPF Topology in the Presence of Communication Delays. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8881-8894.	8.0	16
15	Model Reduction for a Class of Convergent Nonlinear Systems. IEEE Transactions on Automatic Control, 2012, 57, 1071-1076.	5.7	13
16	Modeling and Numerical Implementation of Managed-Pressure-Drilling Systems for the Assessment of Pressure-Control Systems. SPE Drilling and Completion, 2020, 35, 598-619.	1.6	11
17	Contracts as specifications for dynamical systems in driving variable form. , 2019, , .		10
18	Data-Driven Model Reduction of Monotone Systems by Nonlinear DC Gains. IEEE Transactions on Automatic Control, 2020, 65, 2094-2106.	5.7	10

#	ARTICLE	IF	CITATIONS
19	An Adaptive Disturbance Decoupling Perspective to Longitudinal Platooning. , 2022, 6, 668-673.		10
20	On Structural and Safety Properties of Head-to-Tail String Stability in Mixed Platoons. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 6614-6626.	8.0	7
21	Error estimation in reduced basis method for systems with time-varying and nonlinear boundary conditions. Computer Methods in Applied Mechanics and Engineering, 2020, 360, 112688.	6.6	6
22	Reducing time headway in platoons under the MPF topology in the presence of communication delays. IFAC-PapersOnLine, 2020, 53, 15267-15274.	0.9	6
23	Model Order Reduction for Managed Pressure Drilling Systems based on a Model with Local Nonlinearities – This research has been carried out in the HYDRA project, which has received funding from the European Union’s Horizon 2020 research and innovation program under grant agreement No 675731.. IFAC-PapersOnLine, 2018, 51, 50-55.	0.9	5
24	Control-Oriented Modeling for Managed Pressure Drilling Automation Using Model Order Reduction. IEEE Transactions on Control Systems Technology, 2021, 29, 1161-1174.	5.2	5
25	Output-Feedback Design of Longitudinal Platooning With Adaptive Disturbance Decoupling. , 2022, 6, 3104-3109.		5
26	Gear management for fuel-efficient heavy-duty vehicle platooning. , 2016, , .		4
27	Model reduction for linear delay systems using a delay-independent balanced truncation approach. , 2017, , .		4
28	Behavioural contracts for linear dynamical systems: input assumptions and output guarantees. , 2021, , .		4
29	Error estimates for model order reduction of Burgers’s equation. IFAC-PapersOnLine, 2020, 53, 5609-5616.	0.9	3
30	Behavioural assume-guarantee contracts for linear dynamical systems. , 2021, , .		3
31	An extended model order reduction technique for linear delay systems. , 2019, , .		2
32	Scalable robustness of interconnected systems subject to structural changes. IFAC-PapersOnLine, 2020, 53, 3373-3378.	0.9	2
33	Generalized incremental balanced truncation for nonlinear systems. , 2013, , .		1
34	Path-Based Stability Analysis for Monotone Control Systems on Proper Cones. IEEE Transactions on Automatic Control, 2022, 67, 5517-5524.	5.7	1
35	Reducing time headway in platoons under the MPF topology when using sensors and wireless communications. , 2020, , .		1
36	Distributed design of locally stabilizing controllers for large-scale networked linear systems. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
37	Weak resilience of networked control systems. , 2016, , .		0
38	Finite-time consensus protocols for multi-dimensional multi-agent systems. Control Theory and Technology, 2020, 18, 419-430.	1.6	0
39	Robustness of the terminal behaviour of resistive electrical networks. , 2021, , .		0