RafaÅ, Wisniewski

List of Publications by Year
in descending order

64 papers	1,128 citations	471509 17 h-index	414414 32 g-index
64 all docs	64 docs citations	64 times ranked	818 citing authors

#	Article	IF	Citations
1	Stochastic Safety for Markov Chains. , 2021, 5, 427-432.		4
2	Stochastic Safety for Random Dynamical Systems. , 2021, , .		2
3	Smart Water Infrastructures Laboratory: Reconfigurable Test-Beds for Research in Water Infrastructures Management. Water (Switzerland), 2021, 13, 1875.	2.7	9
4	Almost global stability of nonlinear switched systems with mode-dependent and edge-dependent average dwell time. Nonlinear Analysis: Hybrid Systems, 2021, 41, 101052.	3.5	5
5	Safety of stochastic systems: An analytic and computational approach. Automatica, 2021, 133, 109839.	5.0	5
6	Private Aggregation With Application to Distributed Optimization. , 2021, 5, 1591-1596.		6
7	Weak Safe Reachability for Nonlinear Systems with State-Dependent Switching. , 2021, , .		0
8	Almost Global Stability of Nonlinear Switched Systems With Time-Dependent Switching. IEEE Transactions on Automatic Control, 2020, 65, 2969-2978.	5.7	16
9	Model predictive control with fatigue-damage minimization through the dissipativity property of hysteresis operators. European Journal of Control, 2020, 54, 140-151.	2.6	1
10	p-Safe Analysis of Stochastic Hybrid Processes. IEEE Transactions on Automatic Control, 2020, 65, 5220-5235.	5.7	9
11	Probabilistic reachability and control synthesis for stochastic switched systems using the tamed Euler method. Nonlinear Analysis: Hybrid Systems, 2020, 36, 100860.	3.5	0
12	Control design and Lyapunov Functions via Bernstein Approximations: Exact Results. IFAC-PapersOnLine, 2020, 53, 6459-6464.	0.9	4
13	Optimal Control for Water Distribution Networks with Unknown Dynamics. IFAC-PapersOnLine, 2020, 53, 6577-6582.	0.9	2
14	Almost Global Stability of Nonlinear Switched System with Stable and Unstable Subsystems. , 2020, , .		0
15	Anomaly Detection of Markov Processes with Evolution Equation and Moments. IFAC-PapersOnLine, 2020, 53, 1974-1979.	0.9	0
16	Privacy Preserving Distributed Summation in a Connected Graph. IFAC-PapersOnLine, 2020, 53, 3445-3450.	0.9	1
17	Sum-of-Squares based computation of a Lyapunov function for proving stability of a satellite with electromagnetic actuation. IFAC-PapersOnLine, 2020, 53, 7380-7385.	0.9	0
18	Safe Reachability Verification of Nonlinear Switched Systems via a Barrier Density. , 2019, , .		4

#	Article	IF	Citations
19	New Insights on p-safety of Stochastic Systems. , 2019, , .		4
20	A Sufficient Condition for the Almost Global Stability of Nonlinear Switched Systems with Average Dwell Time. , 2019, , .		2
21	Robust and global attitude stabilization of magnetically actuated spacecraft through sliding mode. Aerospace Science and Technology, 2018, 76, 91-104.	4.8	53
22	Unsupervised Fault Detection of Refrigeration Containers using a Mahalanobis Inverse Moment Matrix Polynomial. IFAC-PapersOnLine, 2018, 51, 249-254.	0.9	2
23	Leakage localization in water distribution using data-driven models and sensitivity analysis. IFAC-PapersOnLine, 2018, 51, 736-741.	0.9	9
24	Fault Detection and Isolation in Linear Heterogeneous Multi-Agent Networks. IFAC-PapersOnLine, 2018, 51, 784-789.	0.9	3
25	On robust stability of switched systems in the context of Filippov solutions. Systems and Control Letters, 2017, 109, 17-23.	2.3	9
26	From Consumption to Prosumption - Operational Cost Optimization for Refrigeration System With Heat Waste Recovery. IFAC-PapersOnLine, 2017, 50, 11257-11262.	0.9	0
27	Lyapunov Function Synthesis - Infeasibility and Farkasâ€™ Lemma * *This work is supported by the Danish Council for Independent Research under grant number DFF - 4005-00452 in the project CodeMe.. IFAC-PapersOnLine, 2017, 50, 1667-1672.	0.9	2
28	Asymptotic set-point regulation for a large class of non-linear hydraulic networks. IFAC-PapersOnLine, 2017, 50, 5355-5360.	0.9	2
29	Stochastic Stability Analysis of Control Systems with Uncertain Communication * *This work is supported by the Danish Council for Independent Research under grant number DFF - 4005-00452 in the project CodeMe. IFAC-PapersOnLine, 2017, 50, 6172-6177.	0.9	0
30	Stochastic safety analysis of stochastic hybrid systems. , 2017, , .		14
31	Representation of fatigue for wind turbine control. Wind Energy, 2016, 19, 2189-2203.	4.2	22
32	Moment matching for bilinear systems with nice selections. IFAC-PapersOnLine, 2016, 49, 838-843.	0.9	1
33	Reachability and observability reduction for linear switched systems with constrained switching. Automatica, 2016, 74, 162-170.	5.0	13
34	Model Reduction by Nice Selections for Linear Switched Systems. IEEE Transactions on Automatic Control, 2016, 61, 3422-3437.	5.7	20
35	On using Pareto optimality to tune a linear model predictive controller for wind turbines. Renewable Energy, 2016, 87, 884-891.	8.9	47
36	Safety Verification of Piecewise-Deterministic Markov Processes. , 2016, , .		6

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37	Safety Analysis of Stochastic Dynamical Systems. IFAC-PapersOnLine, 2015, 48, 62-67.	0.9	14
38	Fatigue damage estimation and data‐based control for wind turbines. IET Control Theory and Applications, 2015, 9, 1042-1050.	2.1	39
39	Data‐driven predictive direct load control of refrigeration systems. IET Control Theory and Applications, 2015, 9, 1022-1033.	2.1	15
40	Global Asymptotic Stabilization of Large-Scale Hydraulic Networks Using Positive Proportional Controls. IEEE Transactions on Control Systems Technology, 2014, 22, 2417-2423.	5.2	6
41	In-orbit estimation of time-varying residual magnetic moment. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 3126-3136.	4.7	12
42	Distribution Loss Reduction by Household Consumption Coordination in Smart Grids. IEEE Transactions on Smart Grid, 2014, 5, 2133-2144.	9.0	27
43	Guaranteed cost controller synthesis for switched systems defined on semi-algebraic sets. Nonlinear Analysis: Hybrid Systems, 2014, 11, 37-56.	3.5	11
44	State‐space representation of the wind flow model in wind farms. Wind Energy, 2014, 17, 627-639.	4.2	31
45	Analysis of synchronization in a supermarket refrigeration system. Control Theory and Technology, 2014, 12, 154-162.	1.6	3
46	Output regulation of large-scale hydraulic networks with minimal steady state power consumption. Control Engineering Practice, 2014, 22, 103-113.	5.5	5
47	Estimation of Rotor Effective Wind Speed: A Comparison. IEEE Transactions on Control Systems Technology, 2013, 21, 1155-1167.	5.2	153
48	A distributed optimization framework for wind farms. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 123, 88-98.	3.9	34
49	Balanced truncation for linear switched systems. Nonlinear Analysis: Hybrid Systems, 2013, 10, 4-20.	3.5	27
50	Toward model-based control of non-linear hydraulic networks. JVC/Journal of Vibration and Control, 2013, 19, 2145-2153.	2.6	4
51	Global stabilisation of large‐scale hydraulic networks with quantised and positive proportional controls. IET Control Theory and Applications, 2013, 7, 380-386.	2.1	3
52	Complete abstractions of dynamical systems by timed automata. Nonlinear Analysis: Hybrid Systems, 2013, 7, 80-100.	3.5	12
53	Profit Maximization of a Power Plant. European Journal of Control, 2012, 18, 38-54.	2.6	5
54	Robust H^∞ control of uncertain switched systems defined on polyhedral sets with Filippov solutions. ISA Transactions, 2012, 51, 722-731.	5.7	10

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55	On formalism and stability of switched systems. Journal of Control Theory and Applications, 2012, 10, 176-183.	0.8	21
56	Verification of continuous dynamical systems by timed automata. Formal Methods in System Design, 2011, 39, 47-82.	0.8	11
57	Controller design for a wind farm, considering both power and load aspects. Mechatronics, 2011, 21, 720-727.	3.3	55
58	Generalised gramian framework for model/controller order reduction of switched systems. International Journal of Systems Science, 2011, 42, 1277-1291.	5.5	25
59	Geometric analysis of nondeterminacy in dynamical systems. Acta Informatica, 2007, 43, 501-519.	0.5	2
60	Slew maneuver control for spacecraft equipped with star camera and reaction wheels. Control Engineering Practice, 2005, 13, 349-356.	5.5	35
61	Periodic H2 Synthesis for Spacecraft Attitude Control with Magnetorquers. Journal of Guidance, Control, and Dynamics, 2004, 27, 874-881.	2.8	23
62	Fuzzy controller for a system with uncertain load. Fuzzy Sets and Systems, 2002, 131, 185-195.	2.7	11
63	Linear Time-Varying Approach to Satellite Attitude Control Using Only Electromagnetic Actuation. Journal of Guidance, Control, and Dynamics, 2000, 23, 640-647.	2.8	92
64	Fully magnetic attitude control for spacecraft subject to gravity gradient. Automatica, 1999, 35, 1201-1214.	5.0	165