

Nathan van de Wouw

List of Publications by Citations

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183
papers

5,773
citations

38
h-index

72
g-index

192
ext. papers

6,994
ext. citations

3.8
avg, IF

6.07
L-index

#	Paper	IF	Citations
183	Networked Control Systems With Communication Constraints: Tradeoffs Between Transmission Intervals, Delays and Performance. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1781-1796	5.9	540
182	Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 2101-2115	5.9	347
181	Lp String Stability of Cascaded Systems: Application to Vehicle Platooning. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 786-793	4.8	327
180	Design and experimental evaluation of cooperative adaptive cruise control 2011 ,		260
179	Stability of Networked Control Systems With Uncertain Time-Varying Delays. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1575-1580	5.9	259
178	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 1527-1537	6.1	235
177	Controller synthesis for networked control systems. <i>Automatica</i> , 2010 , 46, 1584-1594	5.7	216
176	Convergent dynamics, a tribute to Boris Pavlovich Demidovich. <i>Systems and Control Letters</i> , 2004 , 52, 257-261	2.4	214
175	Prediction of regenerative chatter by modelling and analysis of high-speed milling. <i>International Journal of Machine Tools and Manufacture</i> , 2003 , 43, 1437-1446	9.4	198
174	A comparison of model reduction techniques from structural dynamics, numerical mathematics and systems and control. <i>Journal of Sound and Vibration</i> , 2013 , 332, 4403-4422	3.9	155
173	Reconfigurable control of piecewise affine systems with actuator and sensor faults: Stability and tracking. <i>Automatica</i> , 2011 , 47, 678-691	5.7	94
172	Nonlinear Drillstring Dynamics Analysis. <i>SIAM Journal on Applied Dynamical Systems</i> , 2009 , 8, 527-553	2.8	91
171	Uniform Output Regulation of Nonlinear Systems 2006 ,		91
170	Analysis of Friction-Induced Limit Cycling in an Experimental Drill-String System. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2004 , 126, 709-720	1.6	85
169	Control of mechanical motion systems with non-collocation of actuation and friction: A Popov criterion approach for input-to-state stability and set-valued nonlinearities. <i>Automatica</i> , 2009 , 45, 405-415	5.7	80
168	On polytopic inclusions as a modeling framework for systems with time-varying delays. <i>Automatica</i> , 2010 , 46, 615-619	5.7	79
167	Tracking Control for Nonlinear Networked Control Systems. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1539-1554	5.9	71

166	A discrete-time framework for stability analysis of nonlinear networked control systems. <i>Automatica</i> , 2012 , 48, 1144-1153	5.7	66
165	Frequency Response Functions for Nonlinear Convergent Systems. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1159-1165	5.9	66
164	A virtual structure approach to formation control of unicycle mobile robots using mutual coupling. <i>International Journal of Control</i> , 2011 , 84, 1886-1902	1.5	63
163	A Semi-Analytical Study of Stick-Slip Oscillations in Drilling Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2011 , 6,	1.4	61
162	Friction compensation in a controlled one-link robot using a reduced-order observer. <i>IEEE Transactions on Control Systems Technology</i> , 2006 , 14, 374-383	4.8	61
161	Using passive nonlinear targeted energy transfer to stabilize drill-string systems. <i>Mechanical Systems and Signal Processing</i> , 2009 , 23, 148-169	7.8	58
160	Friction-induced limit cycling in flexible rotor systems: An experimental drill-string set-up. <i>Nonlinear Dynamics</i> , 2006 , 46, 273-291	5	54
159	Convergent systems vs. incremental stability. <i>Systems and Control Letters</i> , 2013 , 62, 277-285	2.4	51
158	Tracking Control for Hybrid Systems With State-Triggered Jumps. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 876-890	5.9	51
157	Fuel cell cars in a microgrid for synergies between hydrogen and electricity networks. <i>Applied Energy</i> , 2017 , 192, 296-304	10.7	48
156	String stability of interconnected vehicles under communication constraints 2012 ,		48
155	Decentralized observer-based control via networked communication. <i>Automatica</i> , 2013 , 49, 2074-2086	5.7	47
154	Analysis of undercompensation and overcompensation of friction in 1DOF mechanical systems. <i>Automatica</i> , 2007 , 43, 1387-1394	5.7	45
153	On convergence properties of piecewise affine systems. <i>International Journal of Control</i> , 2007 , 80, 1233-1247	1.5	45
152	Consensus Control for Vehicular Platooning With Velocity Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1592-1605	4.8	42
151	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012 , 13, 989-993	6.1	41
150	Analysis and Control of Stick-Slip Oscillations in Drilling Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1582-1593	4.8	40
149	Trailer Steering Control of a Tractor-Trailer Robot. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1240-1252	4.8	38

148	Model Reduction for Nonlinear Systems by Incremental Balanced Truncation. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 2739-2753	5.9	38
147	Extremum-seeking control for nonlinear systems with periodic steady-state outputs. <i>Automatica</i> , 2013 , 49, 1883-1891	5.7	38
146	Performance of convergence-based variable-gain control of optical storage drives. <i>Automatica</i> , 2008 , 44, 15-27	5.7	38
145	Tracking and synchronisation for a class of PWA systems. <i>Automatica</i> , 2008 , 44, 2909-2915	5.7	37
144	Attractivity of Equilibrium Sets of Systems with Dry Friction. <i>Nonlinear Dynamics</i> , 2004 , 35, 19-39	5	37
143	Stability properties of equilibrium sets of non-linear mechanical systems with dry friction and impact. <i>Nonlinear Dynamics</i> , 2008 , 51, 551-583	5	36
142	Graceful degradation of CACC performance subject to unreliable wireless communication 2013 ,		35
141	Global nonlinear output regulation: Convergence-based controller design. <i>Automatica</i> , 2007 , 43, 456-463	5.7	35
140	Observer Designs for Experimental Non-Smooth and Discontinuous Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 1323-1332	4.8	34
139	Guaranteeing stable tracking of hybrid position/force trajectories for a robot manipulator interacting with a stiff environment. <i>Automatica</i> , 2016 , 63, 235-247	5.7	32
138	. <i>IEEE Transactions on Intelligent Vehicles</i> , 2019 , 4, 186-196	5	30
137	PERFORMANCE OF AN AUTOMATIC BALL BALANCER WITH DRY FRICTION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005 , 15, 65-82	2	30
136	Cooperative Automated Maneuvering at the 2016 Grand Cooperative Driving Challenge. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 1213-1226	6.1	29
135	UNIFORM CONVERGENCE OF MONOTONE MEASURE DIFFERENTIAL INCLUSIONS: WITH APPLICATION TO THE CONTROL OF MECHANICAL SYSTEMS WITH UNILATERAL CONSTRAINTS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008 , 18, 1435-1457	2	29
134	Estimation of spinal loading in vertical vibrations by numerical simulation. <i>Clinical Biomechanics</i> , 2003 , 18, 800-11	2.2	29
133	Co-Design of Controller and Communication Topology for Vehicular Platooning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 2728-2739	6.1	28
132	Frequency-domain tools for stability analysis of reset control systems. <i>Automatica</i> , 2017 , 82, 101-108	5.7	28
131	Dynamics of a distributed drill string system: Characteristic parameters and stability maps. <i>Journal of Sound and Vibration</i> , 2018 , 417, 376-412	3.9	28

130	Interaction between torsional and lateral vibrations in flexible rotor systems with discontinuous friction. <i>Nonlinear Dynamics</i> , 2007 , 50, 679-699	5	28
129	Model-Based Robust Control of Directional Drilling Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 226-239	4.8	26
128	Model reduction for nonlinear systems with incremental gain or passivity properties. <i>Automatica</i> , 2013 , 49, 861-872	5.7	26
127	Synthesis of Variable Gain Integral Controllers for Linear Motion Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 139-149	4.8	25
126	Stability analysis of networked and quantized linear control systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2013 , 10, 111-125	4.5	25
125	Axial and torsional self-excited vibrations of a distributed drill-string. <i>Journal of Sound and Vibration</i> , 2019 , 444, 127-151	3.9	24
124	Experimental Output Regulation for a Nonlinear Benchmark System. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 786-793	4.8	22
123	Mitigation of Torsional Vibrations in Drilling Systems: A Robust Control Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 249-265	4.8	20
122	Backstepping controller synthesis and characterizations of incremental stability. <i>Systems and Control Letters</i> , 2013 , 62, 949-962	2.4	20
121	Reachable Sets of Hidden CPS Sensor Attacks: Analysis and Synthesis Tools. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2088-2094	0.7	20
120	Switching Control in Vibration Isolation Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 626-635	4.8	19
119	Sensitivity analysis of hybrid systems with state jumps with application to trajectory tracking 2014 ,		19
118	An embedding approach for the design of state-feedback tracking controllers for references with jumps. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 1585-1608	3.6	19
117	Compensation-based control for lossy communication networks. <i>International Journal of Control</i> , 2013 , 86, 1880-1897	1.5	17
116	Predictor-Based Remote Tracking Control of a Mobile Robot. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 2087-2102	4.8	17
115	Robust impulsive control of motion systems with uncertain friction. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 369-397	3.6	17
114	Cooperative adaptive cruise control: Tradeoffs between control and network specifications 2011 ,		17
113	A Hydrogen-Based Integrated Energy and Transport System: The Design and Analysis of the Car as Power Plant Concept. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2019 , 5, 37-50	1.6	17

112	Reset integral control for improved settling of PID-based motion systems with friction. <i>Automatica</i> , 2019 , 107, 483-492	5.7	16
111	A dither-free extremum-seeking control approach using 1st-order least-squares fits for gradient estimation 2014 ,		16
110	Experimental frequency-domain analysis of nonlinear controlled optical storage drives. <i>IEEE Transactions on Control Systems Technology</i> , 2006 , 14, 389-397	4.8	15
109	Model reduction for delay differential equations with guaranteed stability and error bound. <i>Automatica</i> , 2015 , 55, 132-139	5.7	13
108	Performance optimization of piecewise affine variable-gain controllers for linear motion systems. <i>Mechatronics</i> , 2014 , 24, 648-660	3	13
107	Saturated control of time-varying formations and trajectory tracking for unicycle multi-agent systems 2010 ,		13
106	Bifurcations of equilibrium sets in mechanical systems with dry friction. <i>Physica D: Nonlinear Phenomena</i> , 2012 , 241, 1882-1894	3.3	12
105	Control scheme for human-robot co-manipulation of uncertain, time-varying loads 2009 ,		12
104	Distance function design and Lyapunov techniques for the stability of hybrid trajectories. <i>Automatica</i> , 2016 , 73, 38-46	5.7	11
103	Split-path nonlinear integral control for transient performance improvement. <i>Automatica</i> , 2016 , 66, 262-270	5.7	11
102	Active Trailer Steering Control for High-Capacity Vehicle Combinations. <i>IEEE Transactions on Intelligent Vehicles</i> , 2017 , 2, 251-265	5	11
101	Robust model predictive cooperative adaptive cruise control subject to V2V impairments 2017 ,		11
100	Trajectory tracking control for a tele-operation setup with disturbance estimation and compensation 2010 ,		11
99	A Volterra Series Approach to the Approximation of Stochastic Nonlinear Dynamics. <i>Nonlinear Dynamics</i> , 2002 , 27, 397-409	5	11
98	Control of humanoid robot motions with impacts: Numerical experiments with reference spreading control 2017 ,		11
97	Extremum-Seeking Control for the Adaptive Design of Variable Gain Controllers. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1041-1051	4.8	10
96	Tracking control for sampled-data systems with uncertain time-varying sampling intervals and delays. <i>International Journal of Robust and Nonlinear Control</i> , 2009 , 20, n/a-n/a	3.6	10
95	Reconfigurable control of PWA systems with actuator and sensor faults: Stability 2008 ,		10

94	Non-linear dynamics of a stochastically excited beam system with impact. <i>International Journal of Non-Linear Mechanics</i> , 2003 , 38, 767-779	2.8	10
93	Nonlinear Parametric Identification Using Chaotic Data. <i>JVC/Journal of Vibration and Control</i> , 1995 , 1, 291-305	2	10
92	Variable-Gain Control for Respiratory Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 163-171	4.8	10
91	Nonlinear dynamic modeling and analysis of borehole propagation for directional drilling. <i>International Journal of Non-Linear Mechanics</i> , 2019 , 113, 178-201	2.8	9
90	A Godunov-type Scheme for the Drift Flux Model with Variable Cross Section. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 179, 796-813	4.4	9
89	To stick or to slip: A reset PID control perspective on positioning systems with friction. <i>Annual Reviews in Control</i> , 2020 , 49, 37-63	10.3	9
88	Nonsmooth bifurcations of equilibria in planar continuous systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2010 , 4, 451-474	4.5	9
87	Consensus-based bi-directional CACC for vehicular platooning 2016 ,		9
86	Dynamics of Drilling Systems With an Antistall Tool: Effect on Rate of Penetration and Mechanical Specific Energy. <i>SPE Journal</i> , 2019 , 24, 1982-1996	3.1	8
85	Pyragas-type feedback control for chatter mitigation in high-speed milling. <i>IFAC-PapersOnLine</i> , 2015 , 48, 334-339	0.7	8
84	Modeling and Numerical Implementation of Managed-Pressure-Drilling Systems for the Assessment of Pressure-Control Systems. <i>SPE Drilling and Completion</i> , 2020 , 35, 598-619	1.4	7
83	Extremum-seeking control for optimization of time-varying steady-state responses of nonlinear systems. <i>Automatica</i> , 2020 , 119, 109068	5.7	7
82	Absolute Stabilization of Lurĳ Systems Under Event-Triggered Feedback. <i>IFAC-PapersOnLine</i> , 2017 , 50, 15301-15306	0.7	7
81	Model-based analysis and control of axial and torsional stick-slip oscillations in drilling systems 2011 ,		7
80	Optimal Access Management for Cooperative Intersection Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 2114-2127	6.1	7
79	Incremental Stability of Hybrid Dynamical Systems. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 4094-4109	5.9	6
78	Synchronization of impacting mechanical systems with a single constraint. <i>Physica D: Nonlinear Phenomena</i> , 2018 , 362, 9-23	3.3	6
77	Experimental Evaluation of Reset Control for Improved Stage Performance. <i>IFAC-PapersOnLine</i> , 2016 , 49, 93-98	0.7	6

76	Active trailer steering for robotic tractor-trailer combinations 2015 ,		6
75	Output-feedback inclination control of directional drilling systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 260-265.	0.7	6
74	Definitions of incremental stability for hybrid systems 2015 ,		6
73	Transient performance improvement of linear systems using a split-path nonlinear integrator 2014 ,		6
72	Extremum-seeking control for periodic steady-state response optimization 2012 ,		6
71	Min-max control of fuel-cell-car-based smart energy systems 2016 ,		6
70	. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 180-193	4.8	6
69	Design of a supervisory controller for Cooperative Intersection Control using Model Predictive Control. <i>IFAC-PapersOnLine</i> , 2018 , 51, 74-79	0.7	6
68	String-stable automated steering in cooperative driving applications** The manuscript has been derived from the master thesis of Omar Hassanain.View all notes. <i>Vehicle System Dynamics</i> , 2020 , 58, 826-842	2.8	5
67	Observer-based output-feedback control to eliminate torsional drill-string vibrations 2014 ,		5
66	Steady-State Analysis and Regulation of Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1793-1798	5.9	5
65	Learning in the synthesis of data-driven variable-gain controllers 2013 ,		5
64	Repetitive control design based on forwarding for nonlinear minimum-phase systems. <i>Automatica</i> , 2021 , 129, 109671	5.7	5
63	Stability Analysis of Equilibria of Linear Delay Complementarity Systems 2017 , 1, 158-163		4
62	Guest Editorial Introduction to the Special Issue on the 2016 Grand Cooperative Driving Challenge. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 1208-1212	6.1	4
61	Modelling and dynamic analysis of an anti-stall tool in a drilling system including spatial friction. <i>Nonlinear Dynamics</i> , 2019 , 98, 2631-2650	5	4
60	Boosting human force: A robotic enhancement of a human operator's force 2008 ,		4
59	Improving mechanical ventilation for patient care through repetitive control. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1415-1420	0.7	4

58	Error estimation in reduced basis method for systems with time-varying and nonlinear boundary conditions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 360, 112688	5.7	4
57	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. <i>IFAC-PapersOnLine</i> , 2018 , 51, 50-55	0.7	4
56	Switched position-force tracking control of a manipulator interacting with a stiff environment 2015 ,		3
55	Bandwidth-on-Demand Motion Control. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 265-273	1.3	3
54	Vehicular platooning: Multi-Layer Consensus Seeking 2016 ,		3
53	Power scheduling in islanded-mode microgrids using fuel cell vehicles 2017 ,		3
52	Set-point Control of Motion Systems with Uncertain Set-valued Stribeck Friction. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2965-2970	0.7	3
51	Robust disturbance estimation for human-robotic comanipulation. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 1772-1796	3.6	3
50	Formation control of unicycle robots using the virtual structure approach 2011 ,		3
49	A piecewise linear approach towards sheet control in a printer paper path 2006 ,		3
48	Control-Oriented Modeling for Managed Pressure Drilling Automation Using Model Order Reduction. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 1161-1174	4.8	3
47	A sampled-data extremum-seeking approach for accurate setpoint control of motion systems with friction. <i>IFAC-PapersOnLine</i> , 2019 , 52, 801-806	0.7	3
46	Extremum-seeking control for steady-state performance optimization of nonlinear plants with time-varying steady-state outputs 2018 ,		3
45	Emulation-based tracking solutions for nonlinear networked control systems 2012 ,		2
44	The local approximate output regulation problem: convergence region estimates. <i>International Journal of Robust and Nonlinear Control</i> , 2005 , 15, 1-13	3.6	2
43	Alternative Methods in Spectral Factorization. A Modeling and Design Tool. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2001 , 81, 140-144	1	2
42	Error estimates for model order reduction of Burgers's equation. <i>IFAC-PapersOnLine</i> , 2020 , 53, 5609-5616	0.7	2
41	Model order reduction for linear time delay systems: A delay-dependent approach based on energy functionals. <i>Automatica</i> , 2020 , 112, 108701	5.7	2

40	Port-Hamiltonian formulation of two-phase flow models. <i>Systems and Control Letters</i> , 2021 , 149, 104881-2.4	2
39	Dissipativity-based framework for stability analysis of aperiodically sampled nonlinear systems with time-varying delay. <i>Automatica</i> , 2021 , 129, 109632	5.7 2
38	Sampled-data extremum-seeking control for optimization of constrained dynamical systems using barrier function methods 2019 ,	2
37	. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 1652-1663	4.8 2
36	Control Allocation for an Industrial High-Precision Transportation and Positioning System. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 876-883	4.8 2
35	Reset PID Design for Motion Systems With Stribeck Friction. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-17	4.8 2
34	Reduced basis method for managed pressure drilling based on a model with local nonlinearities. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 5178-5199	2.4 2
33	Design of L2 stable fixed-order decentralised controllers in a network of sampled-data systems with time-delays. <i>European Journal of Control</i> , 2020 , 56, 73-85	2.5 1
32	Filtered Split-Path Nonlinear Integrator (F-SPANI) for improved transient performance 2017 ,	1
31	Constructing distance functions and piecewise quadratic Lyapunov functions for stability of hybrid trajectories 2015 ,	1
30	Model-based piecewise affine variable-gain controller synthesis 2013 ,	1
29	Controller synthesis for incremental stability: Application to symbolic controller synthesis 2013 ,	1
28	From convergent dynamics to incremental stability 2012 ,	1
27	Dynamical collapse of trajectories. <i>Europhysics Letters</i> , 2012 , 98, 20001	1.6 1
26	Hybrid Systems With State-Triggered Jumps: Sensitivity-Based Stability Analysis With Application to Trajectory Tracking. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 4568-4583	5.9 1
25	Frequency-domain stability conditions for asynchronously sampled decentralized LTI systems. <i>Automatica</i> , 2021 , 129, 109603	5.7 1
24	An extended model order reduction technique for linear delay systems 2019 ,	1
23	Online hose calibration for pressure control in mechanical ventilation 2019 ,	1

22	Hybrid model formulation and stability analysis of a PID-controlled motion system with Coulomb friction. <i>IFAC-PapersOnLine</i> , 2019 , 52, 84-89	0.7	1
21	Fast Identification of Continuous-Time Lur'e-type Systems with Stability Certification. <i>IFAC-PapersOnLine</i> , 2019 , 52, 227-232	0.7	1
20	Emulation-based output regulation of linear networked control systems subject to scheduling and uncertain transmission intervals. <i>IFAC-PapersOnLine</i> , 2019 , 52, 526-531	0.7	1
19	Power Scheduling of Fuel Cell Cars in an Islanded Mode Microgrid With Private Driving Patterns. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1393-1403	4.8	1
18	Prediction-Based Control for Mitigation of Axial-Torsional Vibrations in a Distributed Drill-String System. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-17	4.8	1
17	Effect of shock subs on self-excited vibrations in drilling systems. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 181, 106217	4.4	0
16	Control-oriented model reduction for a class of hyperbolic systems with application to managed pressure drilling. <i>IFAC-PapersOnLine</i> , 2020 , 53, 7698-7703	0.7	0
15	Flipped halfwave: improved modeling of spontaneous breathing effort. <i>IFAC-PapersOnLine</i> , 2021 , 54, 175-179	0.7	0
14	Robust output-feedback control of 3D directional drilling systems. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 5915-5942	3.6	0
13	Filtered Split-Path Nonlinear Integrator: A Hybrid Controller for Transient Performance Improvement. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-13	4.8	0
12	Multiple Faults Estimation in Dynamical Systems: Tractable Design and Performance Bounds. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	0
11	Call for Papers: International Journal of Robust and Nonlinear Control Performance of Nonlinear Control Systems. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 1354-1354	3.6	
10	Stability and Control of Lur'e-type Measure Differential Inclusions. <i>World Scientific Series on Nonlinear Science, Series B</i> , 2010 , 129-151	0.3	
9	Modeling of High-Speed Milling for Prediction of Regenerative Chatter 2005 , 169-186		
8	A data-based stability-preserving model order reduction method for hyperbolic partial differential equations. <i>Nonlinear Dynamics</i> , 2022 , 107, 3729	5	
7	Real-Time Fault Estimation for a Class of Discrete-Time Linear Parameter-Varying Systems 2022 , 6, 1988-1993		
6	State-Space Kernelized Closed-Loop Identification of Nonlinear Systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1126-1131	0.7	
5	On the graphical stability of hybrid solutions with non-matching jump times. <i>Automatica</i> , 2020 , 111, 108662	5.2	

4	Accurate pressure tracking to support mechanically ventilated patients using an estimated nonlinear hose model and delay compensation. <i>Control Engineering Practice</i> , 2021 , 106, 104660	3.9
3	An approximate well-balanced upgrade of Godunov-type schemes for the isothermal Euler equations and the drift flux model with laminar friction and gravitation. <i>International Journal for Numerical Methods in Fluids</i> , 2021 , 93, 1110-1142	1.9
2	Extremum Seeking With Enhanced Convergence Speed for Optimization of Time-Varying Steady-State Behavior of Industrial Motion Stages. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-17	4.8
1	Sampled-data extremum-seeking framework for constrained optimization of nonlinear dynamical systems. <i>Automatica</i> , 2022 , 142, 110415	5.7