

# Nathan van de Wouw

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A data-based stability-preserving model order reduction method for hyperbolic partial differential equations. <i>Nonlinear Dynamics</i> , <b>2022</b> , 107, 3729	5	
182	Real-Time Fault Estimation for a Class of Discrete-Time Linear Parameter-Varying Systems <b>2022</b> , 6, 1988-1993		
181	Multiple Faults Estimation in Dynamical Systems: Tractable Design and Performance Bounds. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9	0
180	Sampled-data extremum-seeking framework for constrained optimization of nonlinear dynamical systems. <i>Automatica</i> , <b>2022</b> , 142, 110415	5.7	
179	Flipped halfwave: improved modeling of spontaneous breathing effort. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 175-179	0.7	0
178	Port-Hamiltonian formulation of two-phase flow models. <i>Systems and Control Letters</i> , <b>2021</b> , 149, 104881-149		2
177	Control-Oriented Modeling for Managed Pressure Drilling Automation Using Model Order Reduction. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 1161-1174	4.8	3
176	Frequency-domain stability conditions for asynchronously sampled decentralized LTI systems. <i>Automatica</i> , <b>2021</b> , 129, 109603	5.7	1
175	Dissipativity-based framework for stability analysis of aperiodically sampled nonlinear systems with time-varying delay. <i>Automatica</i> , <b>2021</b> , 129, 109632	5.7	2
174	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 180-193	4.8	6
173	Accurate pressure tracking to support mechanically ventilated patients using an estimated nonlinear hose model and delay compensation. <i>Control Engineering Practice</i> , <b>2021</b> , 106, 104660	3.9	
172	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 1652-1663	4.8	2
171	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> , <b>2021</b> , 93, 1110-1142	1.9	
170	Control Allocation for an Industrial High-Precision Transportation and Positioning System. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 876-883	4.8	2
169	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> , <b>2021</b> , 1-17	4.8	
168	Reset PID Design for Motion Systems With Stribeck Friction. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-17	4.8	2
167	Repetitive control design based on forwarding for nonlinear minimum-phase systems. <i>Automatica</i> , <b>2021</b> , 129, 109671	5.7	5

166	Prediction-Based Control for Mitigation of Axial-Torsional Vibrations in a Distributed Drill-String System. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-17	4.8	1
165	Filtered Split-Path Nonlinear Integrator: A Hybrid Controller for Transient Performance Improvement. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-13	4.8	0
164	Modeling and Numerical Implementation of Managed-Pressure-Drilling Systems for the Assessment of Pressure-Control Systems. <i>SPE Drilling and Completion</i> , <b>2020</b> , 35, 598-619	1.4	7
163	To stick or to slip: A reset PID control perspective on positioning systems with friction. <i>Annual Reviews in Control</i> , <b>2020</b> , 49, 37-63	10.3	9
162	Extremum-seeking control for optimization of time-varying steady-state responses of nonlinear systems. <i>Automatica</i> , <b>2020</b> , 119, 109068	5.7	7
161	Design of L2 stable fixed-order decentralised controllers in a network of sampled-data systems with time-delays. <i>European Journal of Control</i> , <b>2020</b> , 56, 73-85	2.5	1
160	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> , <b>2020</b> , 58, 826-842	2.8	5
159	Control-oriented model reduction for a class of hyperbolic systems with application to managed pressure drilling. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 7698-7703	0.7	0
158	Error estimates for model order reduction of Burgers's equation. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 5609-5616	0.7	2
157	State-Space Kernelized Closed-Loop Identification of Nonlinear Systems. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 1126-1131	0.7	
156	Improving mechanical ventilation for patient care through repetitive control. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 1415-1420	0.7	4
155	On the graphical stability of hybrid solutions with non-matching jump times. <i>Automatica</i> , <b>2020</b> , 111, 1086-1092	6.2	
154	Model order reduction for linear time delay systems: A delay-dependent approach based on energy functionals. <i>Automatica</i> , <b>2020</b> , 112, 108701	5.7	2
153	Hybrid Systems With State-Triggered Jumps: Sensitivity-Based Stability Analysis With Application to Trajectory Tracking. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 4568-4583	5.9	1
152	Variable-Gain Control for Respiratory Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 163-171	4.8	10
151	Power Scheduling of Fuel Cell Cars in an Islanded Mode Microgrid With Private Driving Patterns. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 1393-1403	4.8	1
150	Optimal Access Management for Cooperative Intersection Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 21, 2114-2127	6.1	7
149	Error estimation in reduced basis method for systems with time-varying and nonlinear boundary conditions. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 360, 112688	5.7	4

148	Reduced basis method for managed pressure drilling based on a model with local nonlinearities. <i>International Journal for Numerical Methods in Engineering</i> , <b>2020</b> , 121, 5178-5199	2.4	2
147	Nonlinear dynamic modeling and analysis of borehole propagation for directional drilling. <i>International Journal of Non-Linear Mechanics</i> , <b>2019</b> , 113, 178-201	2.8	9
146	A Godunov-type Scheme for the Drift Flux Model with Variable Cross Section. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 179, 796-813	4.4	9
145	. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2019</b> , 4, 186-196	5	30
144	Dynamics of Drilling Systems With an Antistall Tool: Effect on Rate of Penetration and Mechanical Specific Energy. <i>SPE Journal</i> , <b>2019</b> , 24, 1982-1996	3.1	8
143	Mitigation of Torsional Vibrations in Drilling Systems: A Robust Control Approach. <i>IEEE Transactions on Control Systems Technology</i> , <b>2019</b> , 27, 249-265	4.8	20
142	Effect of shock subs on self-excited vibrations in drilling systems. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 181, 106217	4.4	0
141	Reset integral control for improved settling of PID-based motion systems with friction. <i>Automatica</i> , <b>2019</b> , 107, 483-492	5.7	16
140	Modelling and dynamic analysis of an anti-stall tool in a drilling system including spatial friction. <i>Nonlinear Dynamics</i> , <b>2019</b> , 98, 2631-2650	5	4
139	Sampled-data extremum-seeking control for optimization of constrained dynamical systems using barrier function methods <b>2019</b> ,		2
138	An extended model order reduction technique for linear delay systems <b>2019</b> ,		1
137	Online hose calibration for pressure control in mechanical ventilation <b>2019</b> ,		1
136	Hybrid model formulation and stability analysis of a PID-controlled motion system with Coulomb friction. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 84-89	0.7	1
135	Fast Identification of Continuous-Time LurĒ-type Systems with Stability Certification. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 227-232	0.7	1
134	Emulation-based output regulation of linear networked control systems subject to scheduling and uncertain transmission intervals. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 526-531	0.7	1
133	A sampled-data extremum-seeking approach for accurate setpoint control of motion systems with friction. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 801-806	0.7	3
132	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> , <b>2019</b> , 5, 37-50	1.6	17
131	Axial and torsional self-excited vibrations of a distributed drill-string. <i>Journal of Sound and Vibration</i> , <b>2019</b> , 444, 127-151	3.9	24

130	Cooperative Automated Maneuvering at the 2016 Grand Cooperative Driving Challenge. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2018</b> , 19, 1213-1226	6.1	29
129	Dynamics of a distributed drill string system: Characteristic parameters and stability maps. <i>Journal of Sound and Vibration</i> , <b>2018</b> , 417, 376-412	3.9	28
128	Guest Editorial Introduction to the Special Issue on the 2016 Grand Cooperative Driving Challenge. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2018</b> , 19, 1208-1212	6.1	4
127	Incremental Stability of Hybrid Dynamical Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 4094-4109	5.9	6
126	Bandwidth-on-Demand Motion Control. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 265-273	4.7	3
125	Consensus Control for Vehicular Platooning With Velocity Constraints. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 1592-1605	4.8	42
124	Synchronization of impacting mechanical systems with a single constraint. <i>Physica D: Nonlinear Phenomena</i> , <b>2018</b> , 362, 9-23	3.3	6
123	Extremum-seeking control for steady-state performance optimization of nonlinear plants with time-varying steady-state outputs <b>2018</b> ,		3
122	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> , <b>2018</b> , 51, 50-55	0.7	4
121	Design of a supervisory controller for Cooperative Intersection Control using Model Predictive Control. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 74-79	0.7	6
120	Robust output-feedback control of 3D directional drilling systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2018</b> , 28, 5915-5942	3.6	0
119	Co-Design of Controller and Communication Topology for Vehicular Platooning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2017</b> , 18, 2728-2739	6.1	28
118	Frequency-domain tools for stability analysis of reset control systems. <i>Automatica</i> , <b>2017</b> , 82, 101-108	5.7	28
117	Stability Analysis of Equilibria of Linear Delay Complementarity Systems <b>2017</b> , 1, 158-163		4
116	Fuel cell cars in a microgrid for synergies between hydrogen and electricity networks. <i>Applied Energy</i> , <b>2017</b> , 192, 296-304	10.7	48
115	Power scheduling in islanded-mode microgrids using fuel cell vehicles <b>2017</b> ,		3
114	Absolute Stabilization of Lur’s Systems Under Event-Triggered Feedback. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 15301-15306	0.7	7
113	Reachable Sets of Hidden CPS Sensor Attacks: Analysis and Synthesis Tools. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 2088-2094	0.7	20

112	Set-point Control of Motion Systems with Uncertain Set-valued Stribeck Friction. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 2965-2970	0.7	3
111	Active Trailer Steering Control for High-Capacity Vehicle Combinations. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2017</b> , 2, 251-265	5	11
110	Robust model predictive cooperative adaptive cruise control subject to V2V impairments <b>2017</b> ,		11
109	Filtered Split-Path Nonlinear Integrator (F-SPANI) for improved transient performance <b>2017</b> ,		1
108	Control of humanoid robot motions with impacts: Numerical experiments with reference spreading control <b>2017</b> ,		11
107	Distance function design and Lyapunov techniques for the stability of hybrid trajectories. <i>Automatica</i> , <b>2016</b> , 73, 38-46	5.7	11
106	Experimental Evaluation of Reset Control for Improved Stage Performance. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 93-98	0.7	6
105	Vehicular platooning: Multi-Layer Consensus Seeking <b>2016</b> ,		3
104	Guaranteeing stable tracking of hybrid position-force trajectories for a robot manipulator interacting with a stiff environment. <i>Automatica</i> , <b>2016</b> , 63, 235-247	5.7	32
103	Trailer Steering Control of a Tractor-Trailer Robot. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 1240-1252	4.8	38
102	Split-path nonlinear integral control for transient performance improvement. <i>Automatica</i> , <b>2016</b> , 66, 262-270	5.7	11
101	Analysis and Control of Stick-Slip Oscillations in Drilling Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 1582-1593	4.8	40
100	Model-Based Robust Control of Directional Drilling Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 226-239	4.8	26
99	Min-max control of fuel-cell-car-based smart energy systems <b>2016</b> ,		6
98	Consensus-based bi-directional CACC for vehicular platooning <b>2016</b> ,		9
97	Synthesis of Variable Gain Integral Controllers for Linear Motion Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 139-149	4.8	25
96	Model reduction for delay differential equations with guaranteed stability and error bound. <i>Automatica</i> , <b>2015</b> , 55, 132-139	5.7	13
95	Switched position-force tracking control of a manipulator interacting with a stiff environment <b>2015</b> ,		3

94	Pyragas-type feedback control for chatter mitigation in high-speed milling. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 334-339	0.7	8
93	Extremum-Seeking Control for the Adaptive Design of Variable Gain Controllers. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 1041-1051	4.8	10
92	Active trailer steering for robotic tractor-trailer combinations <b>2015</b> ,		6
91	Output-feedback inclination control of directional drilling systems. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 260-265.	5.7	6
90	Definitions of incremental stability for hybrid systems <b>2015</b> ,		6
89	Constructing distance functions and piecewise quadratic Lyapunov functions for stability of hybrid trajectories <b>2015</b> ,		1
88	Tracking Control for Nonlinear Networked Control Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 1539-1554	5.9	71
87	Model Reduction for Nonlinear Systems by Incremental Balanced Truncation. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 2739-2753	5.9	38
86	Performance optimization of piecewise affine variable-gain controllers for linear motion systems. <i>Mechatronics</i> , <b>2014</b> , 24, 648-660	3	13
85	Observer-based output-feedback control to eliminate torsional drill-string vibrations <b>2014</b> ,		5
84	Sensitivity analysis of hybrid systems with state jumps with application to trajectory tracking <b>2014</b> ,		19
83	A dither-free extremum-seeking control approach using 1st-order least-squares fits for gradient estimation <b>2014</b> ,		16
82	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2014</b> , 15, 1527-1537	6.1	235
81	Lp String Stability of Cascaded Systems: Application to Vehicle Platooning. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 786-793	4.8	327
80	Robust disturbance estimation for human-robotic comanipulation. <i>International Journal of Robust and Nonlinear Control</i> , <b>2014</b> , 24, 1772-1796	3.6	3
79	Predictor-Based Remote Tracking Control of a Mobile Robot. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 2087-2102	4.8	17
78	An embedding approach for the design of state-feedback tracking controllers for references with jumps. <i>International Journal of Robust and Nonlinear Control</i> , <b>2014</b> , 24, 1585-1608	3.6	19
77	Transient performance improvement of linear systems using a split-path nonlinear integrator <b>2014</b> ,		6

76	Convergent systems vs. incremental stability. <i>Systems and Control Letters</i> , <b>2013</b> , 62, 277-285	2.4	51
75	Extremum-seeking control for nonlinear systems with periodic steady-state outputs. <i>Automatica</i> , <b>2013</b> , 49, 1883-1891	5.7	38
74	Backstepping controller synthesis and characterizations of incremental stability. <i>Systems and Control Letters</i> , <b>2013</b> , 62, 949-962	2.4	20
73	Compensation-based control for lossy communication networks. <i>International Journal of Control</i> , <b>2013</b> , 86, 1880-1897	1.5	17
72	Stability analysis of networked and quantized linear control systems. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2013</b> , 10, 111-125	4.5	25
71	Switching Control in Vibration Isolation Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 626-635	4.8	19
70	Model reduction for nonlinear systems with incremental gain or passivity properties. <i>Automatica</i> , <b>2013</b> , 49, 861-872	5.7	26
69	Tracking Control for Hybrid Systems With State-Triggered Jumps. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 876-890	5.9	51
68	A comparison of model reduction techniques from structural dynamics, numerical mathematics and systems and control. <i>Journal of Sound and Vibration</i> , <b>2013</b> , 332, 4403-4422	3.9	155
67	Decentralized observer-based control via networked communication. <i>Automatica</i> , <b>2013</b> , 49, 2074-2086	5.7	47
66	Model-based piecewise affine variable-gain controller synthesis <b>2013</b> ,		1
65	Learning in the synthesis of data-driven variable-gain controllers <b>2013</b> ,		5
64	Graceful degradation of CACC performance subject to unreliable wireless communication <b>2013</b> ,		35
63	Controller synthesis for incremental stability: Application to symbolic controller synthesis <b>2013</b> ,		1
62	A discrete-time framework for stability analysis of nonlinear networked control systems. <i>Automatica</i> , <b>2012</b> , 48, 1144-1153	5.7	66
61	Steady-State Analysis and Regulation of Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 1793-1798	5.9	5
60	Extremum-seeking control for periodic steady-state response optimization <b>2012</b> ,		6
59	Bifurcations of equilibrium sets in mechanical systems with dry friction. <i>Physica D: Nonlinear Phenomena</i> , <b>2012</b> , 241, 1882-1894	3.3	12



58	Robust impulsive control of motion systems with uncertain friction. <i>International Journal of Robust and Nonlinear Control</i> , <b>2012</b> , 22, 369-397	3.6	17
57	From convergent dynamics to incremental stability <b>2012</b> ,		1
56	Dynamical collapse of trajectories. <i>Europhysics Letters</i> , <b>2012</b> , 98, 20001	1.6	1
55	String stability of interconnected vehicles under communication constraints <b>2012</b> ,		48
54	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2012</b> , 13, 989-993	6.1	41
53	Emulation-based tracking solutions for nonlinear networked control systems <b>2012</b> ,		2
52	A Semi-Analytical Study of Stick-Slip Oscillations in Drilling Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2011</b> , 6,	1.4	61
51	Model-based analysis and control of axial and torsional stick-slip oscillations in drilling systems <b>2011</b> ,		7
50	Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 2101-2115	5.9	347
49	Call for Papers: International Journal of Robust and Nonlinear Control Performance of Nonlinear Control Systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2011</b> , 21, 1354-1354	3.6	
48	Cooperative adaptive cruise control: Tradeoffs between control and network specifications <b>2011</b> ,		17
47	Reconfigurable control of piecewise affine systems with actuator and sensor faults: Stability and tracking. <i>Automatica</i> , <b>2011</b> , 47, 678-691	5.7	94
46	Formation control of unicycle robots using the virtual structure approach <b>2011</b> ,		3
45	Design and experimental evaluation of cooperative adaptive cruise control <b>2011</b> ,		260
44	A virtual structure approach to formation control of unicycle mobile robots using mutual coupling. <i>International Journal of Control</i> , <b>2011</b> , 84, 1886-1902	1.5	63
43	Saturated control of time-varying formations and trajectory tracking for unicycle multi-agent systems <b>2010</b> ,		13
42	Trajectory tracking control for a tele-operation setup with disturbance estimation and compensation <b>2010</b> ,		11
41	Stability and Control of Lur'e-type Measure Differential Inclusions. <i>World Scientific Series on Nonlinear Science, Series B</i> , <b>2010</b> , 129-151	0.3	

40	Networked Control Systems With Communication Constraints: Tradeoffs Between Transmission Intervals, Delays and Performance. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 1781-1796	5.9	540
39	On polytopic inclusions as a modeling framework for systems with time-varying delays. <i>Automatica</i> , <b>2010</b> , 46, 615-619	5.7	79
38	Controller synthesis for networked control systems. <i>Automatica</i> , <b>2010</b> , 46, 1584-1594	5.7	216
37	Nonsmooth bifurcations of equilibria in planar continuous systems. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2010</b> , 4, 451-474	4.5	9
36	Control scheme for human-robot co-manipulation of uncertain, time-varying loads <b>2009</b> ,		12
35	Tracking control for sampled-data systems with uncertain time-varying sampling intervals and delays. <i>International Journal of Robust and Nonlinear Control</i> , <b>2009</b> , 20, n/a-n/a	3.6	10
34	Using passive nonlinear targeted energy transfer to stabilize drill-string systems. <i>Mechanical Systems and Signal Processing</i> , <b>2009</b> , 23, 148-169	7.8	58
33	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> , <b>2009</b> , 45, 405-415	5.7	80
32	Stability of Networked Control Systems With Uncertain Time-Varying Delays. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 1575-1580	5.9	259
31	Nonlinear Drillstring Dynamics Analysis. <i>SIAM Journal on Applied Dynamical Systems</i> , <b>2009</b> , 8, 527-553	2.8	91
30	Observer Designs for Experimental Non-Smooth and Discontinuous Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2008</b> , 16, 1323-1332	4.8	34
29	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> , <b>2008</b> , 18, 1435-1457	2	29
28	Boosting human force: A robotic enhancement of a human operator's force <b>2008</b> ,		4
27	Reconfigurable control of PWA systems with actuator and sensor faults: Stability <b>2008</b> ,		10
26	Stability properties of equilibrium sets of non-linear mechanical systems with dry friction and impact. <i>Nonlinear Dynamics</i> , <b>2008</b> , 51, 551-583	5	36
25	Tracking and synchronisation for a class of PWA systems. <i>Automatica</i> , <b>2008</b> , 44, 2909-2915	5.7	37
24	Performance of convergence-based variable-gain control of optical storage drives. <i>Automatica</i> , <b>2008</b> , 44, 15-27	5.7	38
23	Experimental Output Regulation for a Nonlinear Benchmark System. <i>IEEE Transactions on Control Systems Technology</i> , <b>2007</b> , 15, 786-793	4.8	22

22	Frequency Response Functions for Nonlinear Convergent Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2007</b> , 52, 1159-1165	5.9	66
21	Global nonlinear output regulation: Convergence-based controller design. <i>Automatica</i> , <b>2007</b> , 43, 456-463	3.7	35
20	Analysis of undercompensation and overcompensation of friction in 1DOF mechanical systems. <i>Automatica</i> , <b>2007</b> , 43, 1387-1394	5.7	45
19	Interaction between torsional and lateral vibrations in flexible rotor systems with discontinuous friction. <i>Nonlinear Dynamics</i> , <b>2007</b> , 50, 679-699	5	28
18	On convergence properties of piecewise affine systems. <i>International Journal of Control</i> , <b>2007</b> , 80, 1233-1247	4.7	45
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