

Henk Nijmeijer

List of Publications by Year in descending order

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328
papers

13,732
citations

47006

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39675

94
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336
all docs

336
docs citations

336
times ranked

6876
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Dynamical Control Systems. , 1990, , .		2,130
2	Tracking Control of Mobile Robots: A Case Study in Backstepping**This paper was not presented at any IFAC meeting. This paper was recommended for publication in revised form by Associate Editor Alberto Isidori under the direction of Editor Tamer Başar.. Automatica, 1997, 33, 1393-1399.	5.0	756
3	An observer looks at synchronization. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 882-890.	0.1	603
4	Lp String Stability of Cascaded Systems: Application to Vehicle Platooning. IEEE Transactions on Control Systems Technology, 2014, 22, 786-793.	5.2	474
5	A recursive technique for tracking control of nonholonomic systems in chained form. IEEE Transactions on Automatic Control, 1999, 44, 265-279.	5.7	400
6	Dynamics and Bifurcations of Non-Smooth Mechanical Systems. Lecture Notes in Applied and Computational Mechanics, 2004, , .	2.2	396
7	Design and experimental evaluation of cooperative adaptive cruise control. , 2011, , .		395
8	Controller Synthesis for String Stability of Vehicle Platoons. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 854-865.	8.0	350
9	Cooperative Adaptive Cruise Control: Network-Aware Analysis of String Stability. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1527-1537.	8.0	327
10	Controller synthesis for networked control systems. Automatica, 2010, 46, 1584-1594.	5.0	286
11	Convergent dynamics, a tribute to Boris Pavlovich Demidovich. Systems and Control Letters, 2004, 52, 257-261.	2.3	268
12	On self-synchronization and controlled synchronization. Systems and Control Letters, 1997, 31, 299-305.	2.3	246
13	Prediction of regenerative chatter by modelling and analysis of high-speed milling. International Journal of Machine Tools and Manufacture, 2003, 43, 1437-1446.	13.4	237
14	Cooperative oscillatory behavior of mutually coupled dynamical systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2001, 48, 152-162.	0.1	230
15	A comparison of model reduction techniques from structural dynamics, numerical mathematics and systems and control. Journal of Sound and Vibration, 2013, 332, 4403-4422.	3.9	208
16	Graceful Degradation of Cooperative Adaptive Cruise Control. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 488-497.	8.0	204
17	Partial synchronization: from symmetry towards stability. Physica D: Nonlinear Phenomena, 2002, 172, 65-87.	2.8	177
18	Battery thermal management by boiling heat-transfer. Energy Conversion and Management, 2014, 79, 9-17.	9.2	171

#	ARTICLE	IF	CITATIONS
19	SYNCHRONIZATION AND GRAPH TOPOLOGY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3423-3433.	1.7	140
20	ADAPTIVE OBSERVER-BASED SYNCHRONIZATION FOR COMMUNICATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2807-2813.	1.7	116
21	Semi-passivity and synchronization of diffusively coupled neuronal oscillators. Physica D: Nonlinear Phenomena, 2009, 238, 2119-2128.	2.8	116
22	Nonlinear Drillstring Dynamics Analysis. SIAM Journal on Applied Dynamical Systems, 2009, 8, 527-553.	1.6	111
23	Robust Active Chatter Control in the High-Speed Milling Process. IEEE Transactions on Control Systems Technology, 2012, 20, 901-917.	5.2	101
24	Robust control of robots via linear estimated state feedback. IEEE Transactions on Automatic Control, 1994, 39, 2159-2162.	5.7	100
25	Analysis of Friction-Induced Limit Cycling in an Experimental Drill-String System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2004, 126, 709-720.	1.6	99
26	Hybrid optimal control of dry clutch engagement. International Journal of Control, 2007, 80, 1717-1728.	1.9	95
27	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. Automatica, 2009, 45, 405-415.	5.0	93
28	Output Feedback Tracking of Ships. IEEE Transactions on Control Systems Technology, 2011, 19, 442-448.	5.2	91
29	ON DIFFUSION DRIVEN OSCILLATIONS IN COUPLED DYNAMICAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 629-644.	1.7	90
30	Cooperative Intersection Control Based on Virtual Platooning. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1727-1740.	8.0	90
31	A virtual structure approach to formation control of unicycle mobile robots using mutual coupling. International Journal of Control, 2011, 84, 1886-1902.	1.9	89
32	Robust Stability of Networked Control Systems with Time-varying Network-induced Delays. , 2006, , .		87
33	Adaptive observers and parameter estimation for a class of systems nonlinear in the parameters. Automatica, 2013, 49, 2409-2423.	5.0	79
34	Friction compensation in a controlled one-link robot using a reduced-order observer. IEEE Transactions on Control Systems Technology, 2006, 14, 374-383.	5.2	76
35	Exponential Tracking Control of a Mobile Car Using a Cascaded Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 201-206.	0.4	75
36	Consensus Control for Vehicular Platooning With Velocity Constraints. IEEE Transactions on Control Systems Technology, 2018, 26, 1592-1605.	5.2	75

#	ARTICLE	IF	CITATIONS
37	String stability of interconnected vehicles under communication constraints. , 2012, , .		68
38	Formation control of unicycle mobile robots: a virtual structure approach. , 2009, , .		67
39	Tracking control of an underactuated surface vessel. , 0, , .		66
40	Friction-induced limit cycling in flexible rotor systems: An experimental drill-string set-up. Nonlinear Dynamics, 2006, 46, 273-291.	5.2	64
41	The sympathy of two pendulum clocks: beyond Huygensâ€™ observations. Scientific Reports, 2016, 6, 23580.	3.3	64
42	Compensation of Communication Delays in a Cooperative ACC System. IEEE Transactions on Vehicular Technology, 2020, 69, 1177-1189.	6.3	64
43	On convergence properties of piecewise affine systems. International Journal of Control, 2007, 80, 1233-1247.	1.9	59
44	Synchronization in networks of chaotic systems with time-delay coupling. Chaos, 2008, 18, 037108.	2.5	59
45	Trailer Steering Control of a Tractorâ€™Trailer Robot. IEEE Transactions on Control Systems Technology, 2016, 24, 1240-1252.	5.2	59
46	Analysis of undercompensation and overcompensation of friction in 1DOF mechanical systems. Automatica, 2007, 43, 1387-1394.	5.0	57
47	Control of the chaotic Duffing equation with uncertainty in all parameters. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 1252-1255.	0.1	56
48	Coordination of two robot manipulators based on position measurements only. International Journal of Control, 2001, 74, 1311-1323.	1.9	54
49	Inputâ€™state stabilizing subâ€™optimal NMPC with an application to DCâ€™DC converters. International Journal of Robust and Nonlinear Control, 2008, 18, 890-904.	3.7	54
50	Automatic In-Process Chatter Avoidance in the High-Speed Milling Process. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	1.6	52
51	Battery electric vehicle energy consumption prediction for a trip based on route information. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 1528-1542.	1.9	52
52	An Improved Tool Path Model Including Periodic Delay for Chatter Prediction in Milling. Journal of Computational and Nonlinear Dynamics, 2007, 2, 167-179.	1.2	51
53	Smith Predictor Compensating for Vehicle Actuator Delays in Cooperative ACC Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 1106-1115.	6.3	50
54	Application of a Dynamic Vibration Absorber to a Piecewise Linear Beam System. Nonlinear Dynamics, 2004, 37, 227-243.	5.2	49

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55	Synchronization in Networks of Diffusively Time-Delay Coupled (Semi-)Passive Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 1358-1371.	5.4	49
56	Model Reduction for Nonlinear Systems by Incremental Balanced Truncation. IEEE Transactions on Automatic Control, 2014, 59, 2739-2753.	5.7	48
57	Pad \hat{A} Approximation of Delays in Cooperative ACC Based on String Stability Requirements. IEEE Transactions on Intelligent Vehicles, 2016, 1, 277-286.	12.7	47
58	NONLINEAR DISCRETE-TIME SYNCHRONIZATION VIA EXTENDED OBSERVERS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1997-2006.	1.7	46
59	An observer-controller combination for a unicycle mobile robot. International Journal of Control, 2005, 78, 81-87.	1.9	46
60	Graceful degradation of CACC performance subject to unreliable wireless communication. , 2013, , .		46
61	Linear controllers for exponential tracking of systems in chained-form. International Journal of Robust and Nonlinear Control, 2000, 10, 243-263.	3.7	45
62	Tracking control of second-order chained form systems by cascaded backstepping. International Journal of Robust and Nonlinear Control, 2003, 13, 95-115.	3.7	44
63	Performance of convergence-based variable-gain control of optical storage drives. Automatica, 2008, 44, 15-27.	5.0	43
64	Observer Designs for Experimental Non-Smooth and Discontinuous Systems. IEEE Transactions on Control Systems Technology, 2008, 16, 1323-1332.	5.2	43
65	Cooperative Driving of Automated Vehicles Using B-Splines for Trajectory Planning. IEEE Transactions on Intelligent Vehicles, 2021, 6, 594-604.	12.7	41
66	Global nonlinear output regulation: Convergence-based controller design. Automatica, 2007, 43, 456-463.	5.0	40
67	Combined Longitudinal and Lateral Control of Car-Like Vehicle Platooning With Extended Look-Ahead. IEEE Transactions on Control Systems Technology, 2020, 28, 790-803.	5.2	40
68	Observer-Based Robust Synchronization of Dynamical Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 2243-2254.	1.7	39
69	Direct Force-Reflecting Two-Layer Approach for Passive Bilateral Teleoperation With Time Delays. IEEE Transactions on Robotics, 2018, 34, 194-206.	10.3	37
70	Mitigation of Torsional Vibrations in Drilling Systems: A Robust Control Approach. IEEE Transactions on Control Systems Technology, 2019, 27, 249-265.	5.2	36
71	Interaction between torsional and lateral vibrations in flexible rotor systems with discontinuous friction. Nonlinear Dynamics, 2007, 50, 679-699.	5.2	35
72	Analysis of the lateral dynamic behaviour of articulated commercial vehicles. Vehicle System Dynamics, 2012, 50, 169-189.	3.7	33

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73	Prediction of chaotic behavior. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 2464-2472.	0.1	32
74	Partial synchronization in diffusively time-delay coupled oscillator networks. Chaos, 2012, 22, 043144.	2.5	32
75	Model reduction for nonlinear systems with incremental gain or passivity properties. Automatica, 2013, 49, 861-872.	5.0	32
76	Application of nonlinear tyre models to analyse shimmy. Vehicle System Dynamics, 2014, 52, 387-404.	3.7	32
77	Cooperative adaptive cruise control: Tradeoffs between control and network specifications. , 2011, , .		31
78	Synthesis of Variable Gain Integral Controllers for Linear Motion Systems. IEEE Transactions on Control Systems Technology, 2015, 23, 139-149.	5.2	31
79	Regulation and controlled synchronization for complex dynamical systems. International Journal of Robust and Nonlinear Control, 2000, 10, 363-377.	3.7	29
80	Reset integral control for improved settling of PID-based motion systems with friction. Automatica, 2019, 107, 483-492.	5.0	29
81	NETWORK COMPLEXITY AND SYNCHRONOUS BEHAVIOR " AN EXPERIMENTAL APPROACH. International Journal of Neural Systems, 2010, 20, 233-247.	5.2	28
82	Automation of a T-intersection Using Virtual Platoons of Cooperative Autonomous Vehicles. , 2015, , .		27
83	Nonlinear output-feedback control of torsional vibrations in drilling systems. International Journal of Robust and Nonlinear Control, 2017, 27, 3659-3684.	3.7	27
84	Design of a minimally invasive surgical teleoperated master-slave system with haptic feedback. , 2009, , .		26
85	Sensitivity analysis of hybrid systems with state jumps with application to trajectory tracking. , 2014, , .		26
86	Second-order reset elements for stage control design. , 2016, , .		26
87	Active Trailer Steering Control for High-Capacity Vehicle Combinations. IEEE Transactions on Intelligent Vehicles, 2017, 2, 251-265.	12.7	26
88	Synchronization of weakly nonlinear oscillators with Huygens' coupling. Chaos, 2013, 23, 033118.	2.5	25
89	Predictor-Based Remote Tracking Control of a Mobile Robot. IEEE Transactions on Control Systems Technology, 2014, 22, 2087-2102.	5.2	25
90	Dynamic stability of a thin cylindrical shell with top mass subjected to harmonic base-acceleration. International Journal of Solids and Structures, 2008, 45, 1587-1613.	2.7	24

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91	Hybrid integrator design for enhanced tracking in motion control. , 2017, , .		24
92	Hybrid Integrator-Gain Systems: A Remedy for Overshoot Limitations in Linear Control?. , 2020, 4, 1042-1047.		24
93	On robustness of constrained discrete-time systems to state measurement errors. Automatica, 2008, 44, 1161-1165.	5.0	23
94	Dynamic stability of a base-excited thin orthotropic cylindrical shell with top mass: Simulations and experiments. Journal of Sound and Vibration, 2010, 329, 3149-3170.	3.9	23
95	Network synchronization using invariant-manifold-based diffusive dynamic couplings with time-delay. Automatica, 2015, 57, 34-44.	5.0	23
96	Merging Strategy for Vehicles by Applying Cooperative Tracking Control. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3423-3433.	8.0	23
97	Enhancing master-slave synchronization: The effect of using a dynamic coupling. Physical Review E, 2018, 98, 012208.	2.1	23
98	A dither-free extremum-seeking control approach using 1st-order least-squares fits for gradient estimation. , 2014, , .		22
99	A control strategy for merging a single vehicle into a platoon at highway on-ramps. Transportation Research Part C: Emerging Technologies, 2022, 136, 103511.	7.6	22
100	Networks of diffusively time-delay coupled systems: Conditions for synchronization and its relation to the network topology. Physica D: Nonlinear Phenomena, 2014, 277, 22-39.	2.8	21
101	Further understanding of Huygensâ€™ coupled clocks: The effect of stiffness. Physica D: Nonlinear Phenomena, 2014, 270, 11-19.	2.8	21
102	A Computational Design Framework for Pressure-driven Soft Robots through Nonlinear Topology Optimization. , 2020, , .		21
103	Saturated control of time-varying formations and trajectory tracking for unicycle multi-agent systems. , 2010, , .		20
104	Semi-analytic approximation of the temperature field resulting from moving heat loads. International Journal of Heat and Mass Transfer, 2018, 122, 128-137.	4.8	20
105	Observer-based compensation of discontinuous friction. , 2004, , .		19
106	Time Delay Compensation in Bilateral Teleoperations Using IMPACT. IEEE Transactions on Control Systems Technology, 2013, 21, 704-715.	5.2	19
107	Robust output-feedback control to eliminate stick-slip oscillations in drill-string systems. IFAC-PapersOnLine, 2015, 48, 266-271.	0.9	19
108	Consensus-based bi-directional CACC for vehicular platooning. , 2016, , .		19

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109	A Volterra Series Approach to the Approximation of Stochastic Nonlinear Dynamics. <i>Nonlinear Dynamics</i> , 2002, 27, 397-409.	5.2	18
110	Nonlinear dynamic analysis of a structure with a friction-based seismic base isolation system. <i>Nonlinear Dynamics</i> , 2007, 50, 523-538.	5.2	18
111	Nonuniform Small-Gain Theorems for Systems with Unstable Invariant Sets. <i>SIAM Journal on Control and Optimization</i> , 2008, 47, 849-882.	2.1	18
112	Synchronization Control for a Swarm of Unicycle Robots: Analysis of Different Controller Topologies. <i>Asian Journal of Control</i> , 2017, 19, 1822-1833.	3.0	18
113	Multi-objective platoon maneuvering using artificial potential fields. <i>IFAC-PapersOnLine</i> , 2017, 50, 15006-15011.	0.9	18
114	Extended Look-Ahead Tracking Controller With Orientation-Error Observer for Vehicle Platooning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 4808-4821.	8.0	18
115	Control scheme for human-robot co-manipulation of uncertain, time-varying loads. , 2009, , .		17
116	Combined lateral and longitudinal CACC for a unicycle-type platoon. , 2016, , .		17
117	On Centroidal Dynamics and Integrability of Average Angular Velocity. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 943-950.	5.1	17
118	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.	7.9	17
119	Control of humanoid robot motions with impacts: Numerical experiments with reference spreading control. , 2017, , .		17
120	On optimal trajectory tracking for mechanical systems with unilateral constraints. , 2015, , .		16
121	Cooperative Adaptive Cruise Control of Heterogeneous Vehicle Platoons. <i>IFAC-PapersOnLine</i> , 2020, 53, 15217-15222.	0.9	16
122	Nonsmooth stabilizability and feedback linearization of discrete-time nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 1996, 6, 171-188.	3.7	15
123	Synchronizing Tracking Control for Flexible Joint Robots via Estimated State Feedback. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2004, 126, 162-172.	1.6	15
124	A SYNCHRONIZATION CONDITION FOR COUPLED NONLINEAR SYSTEMS WITH TIME-DELAY: A FREQUENCY DOMAIN APPROACH. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 2525-2538.	1.7	15
125	Split-path nonlinear integral control for transient performance improvement. <i>Automatica</i> , 2016, 66, 262-270.	5.0	15
126	Experimentally Validated Model Predictive Controller for a Hexacopter * *The authors gratefully acknowledge the partial sponsorship by DSTG, Australia.. <i>IFAC-PapersOnLine</i> , 2017, 50, 4076-4081.	0.9	15

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127	Linear controllers for tracking chained-form systems. Lecture Notes in Control and Information Sciences, 1999, , 183-199.	1.0	15
128	Observer-based model predictive control. International Journal of Control, 2004, 77, 1452-1462.	1.9	14
129	Proportional and derivative control for steady-state vibration mitigation in a piecewise linear beam system. Nonlinear Dynamics, 2010, 60, 535-549.	5.2	14
130	Collision-free motion coordination of unicycle multi-agent systems. , 2010, , .		14
131	Bifurcations of equilibrium sets in mechanical systems with dry friction. Physica D: Nonlinear Phenomena, 2012, 241, 1882-1894.	2.8	14
132	Synchronization of Identical Linear Systems and Diffusive Time-Delayed Couplings. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 1801-1814.	5.4	14
133	A robust control analysis for a steer-by-wire vehicle with uncertainty on the tyre forces. Vehicle System Dynamics, 2016, 54, 1247-1268.	3.7	14
134	LIMIT CYCLING IN AN OBSERVER-BASED CONTROLLED SYSTEM WITH FRICTION: NUMERICAL ANALYSIS AND EXPERIMENTAL VALIDATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3083-3093.	1.7	13
135	The effect of damping on the perception of hardness. , 2015, , .		13
136	Projection-based integrators for improved motion control: Formalization, well-posedness and stability of hybrid integrator-gain systems. Automatica, 2021, 133, 109830.	5.0	13
137	Robust CACC in the Presence of Uncertain Delays. IEEE Transactions on Vehicular Technology, 2022, 71, 3507-3518.	6.3	13
138	Trajectory tracking control for a tele-operation setup with disturbance estimation and compensation. , 2010, , .		12
139	Collective Almost Synchronisation in Complex Networks. PLoS ONE, 2012, 7, e48118.	2.5	12
140	Direct Motion Planning for Vision-Based Control. IEEE Transactions on Automation Science and Engineering, 2014, 11, 1282-1288.	5.2	12
141	Energy analysis of the Von Schlippe tyre model with application to shimmy. Vehicle System Dynamics, 2015, 53, 1795-1810.	3.7	12
142	Feedback stabilisation of a one-dimensional nonlinear pool-boiling system. International Journal of Heat and Mass Transfer, 2010, 53, 2393-2403.	4.8	11
143	Nonlinear resonances in an axially excited beam carrying a top mass: simulations and experiments. Nonlinear Dynamics, 2011, 66, 285-302.	5.2	11
144	Steady-state dynamics of a 3D tensegrity structure: Simulations and experiments. International Journal of Solids and Structures, 2012, 49, 973-988.	2.7	11

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145	Extremum-Seeking Control for the Adaptive Design of Variable Gain Controllers. IEEE Transactions on Control Systems Technology, 2015, 23, 1041-1051.	5.2	11
146	Rule-based control of a semi-active suspension for minimal sprung mass acceleration: design and measurement. Vehicle System Dynamics, 2016, 54, 281-300.	3.7	11
147	Controller Design for Cooperative Driving with Guaranteed Safe Behavior. , 2018, , .		11
148	Control-Oriented Models for Hyperelastic Soft Robots Through Differential Geometry of Curves. Soft Robotics, 2023, 10, 129-148.	8.0	11
149	On dynamic input-output linearization of discrete-time nonlinear systems. International Journal of Control, 1994, 60, 1319-1337.	1.9	10
150	Self-synchronization and controlled synchronization. , 0, , .		10
151	Periodic excitation of a buckled beam using a higher order semianalytic approach. Nonlinear Dynamics, 2007, 50, 325-339.	5.2	10
152	Finite Element Model Reduction and Model Updating of structures for Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4517-4522.	0.4	10
153	Network synchronization of time-delayed coupled nonlinear systems using predictor-based diffusive dynamic couplings. Chaos, 2015, 25, 023108.	2.5	10
154	Synchronization and Partial Synchronization Experiments with Networks of Time-Delay Coupled Hindmarsh-Rose Neurons. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650111.	1.7	10
155	Almost global tracking control of a quadrotor UAV on SE(3). , 2017, , .		10
156	State Estimation for Cooperative Lateral Vehicle Following Using Vehicle-to-Vehicle Communication. Electronics (Switzerland), 2021, 10, 651.	3.1	10
157	Model-based analysis and control of axial and torsional stick-slip oscillations in drilling systems. , 2011, , .		9
158	Active trailer steering for robotic tractor-trailer combinations. , 2015, , .		9
159	Trajectory tracking of mechanical systems with unilateral constraints: Experimental results of a recently introduced hybrid PD feedback controller. , 2015, , .		9
160	Hybrid Systems With State-Triggered Jumps: Sensitivity-Based Stability Analysis With Application to Trajectory Tracking. IEEE Transactions on Automatic Control, 2020, 65, 4568-4583.	5.7	9
161	Output-feedback control of Lur'e-type systems with set-valued nonlinearities: A Popov-criterion approach. 2008.		8
162	Synchronization and activation in a model of a network of \sin neurons. $\text{display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co$	5.0	8

#	ARTICLE	IF	CITATIONS
163	An experimental study on synchronization of nonlinear oscillators with Huygens' coupling. <i>Nonlinear Theory and Its Applications IEICE</i> , 2012, 3, 128-142.	0.6	8
164	Accuracy Assessment of Thermoacoustic Instability Models Using Binary Classification. <i>International Journal of Spray and Combustion Dynamics</i> , 2013, 5, 201-224.	1.0	8
165	Observer-based output-feedback control to eliminate torsional drill-string vibrations. , 2014, , .		8
166	Experimental Validation of Object Positioning Via Stickâ€“Slip Vibrations. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014, 19, 1092-1101.	5.8	8
167	Pyragas-type feedback control for chatter mitigation in high-speed milling. <i>IFAC-PapersOnLine</i> , 2015, 48, 334-339.	0.9	8
168	The PoincarÃ© method: A powerful tool for analyzing synchronization of coupled oscillators. <i>Indagationes Mathematicae</i> , 2016, 27, 1127-1146.	0.4	8
169	Robust Stability and Nonlinear Loop-Shaping Design for Hybrid Integrator-Gain-Based Control Systems. , 2019, , .		8
170	Reset PID Design for Motion Systems With Stribeck Friction. <i>IEEE Transactions on Control Systems Technology</i> , 2022, 30, 294-310.	5.2	8
171	Dynamic modeling of hyper-elastic soft robots using spatial curves. <i>IFAC-PapersOnLine</i> , 2020, 53, 9238-9243.	0.9	8
172	An error bound for model reduction of Lur'e-type systems. , 2009, , .		7
173	On the achievable performance using variable geometry active secondary suspension systems in commercial vehicles. <i>Vehicle System Dynamics</i> , 2011, 49, 1553-1573.	3.7	7
174	The Electromechanical Low-Power Active Suspension: Modeling, Control, and Prototype Testing. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2011, 133, .	1.6	7
175	Transient performance improvement of linear systems using a split-path nonlinear integrator. , 2014, , .		7
176	Switched position-force tracking control of a manipulator interacting with a stiff environment. , 2015, , .		7
177	Huygens' inspired multi-pendulum setups: Experiments and stability analysis. <i>Chaos</i> , 2016, 26, 116304.	2.5	7
178	Coupling-modulated multi-stability and coherent dynamics in directed networks of heterogeneous nonlinear oscillators with modular topology. <i>IFAC-PapersOnLine</i> , 2016, 49, 62-67.	0.9	7
179	Synchronization of â€œlight-sensitiveâ€œ Hindmarshâ€œRose neurons. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 57, 322-330.	3.3	7
180	Distributed Scenario Model Predictive Control for Driver Aided Intersection Crossing. , 2018, , .		7

#	ARTICLE	IF	CITATIONS
181	Data-Rate Constrained Observers of Nonlinear Systems. Entropy, 2019, 21, 282.	2.2	7
182	Linear Parameter-Varying Control of Nonlinear Systems based on Incremental Stability. IFAC-PapersOnLine, 2019, 52, 38-43.	0.9	7
183	Dynamic coupling enhances network synchronization. IFAC-PapersOnLine, 2019, 52, 610-615.	0.9	7
184	Reference Spreading: Tracking Performance for Impact Trajectories of a 1DoF Setup. IEEE Transactions on Control Systems Technology, 2020, 28, 1124-1131.	5.2	7
185	Master-Slave synchronization of robot manipulators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 447-452.	0.4	6
186	Practical stabilization of a mobile robot using saturated control. , 2006, , .		6
187	Improving yaw dynamics by feedforward rear wheel steering. , 2008, , .		6
188	Formation control of unicycle robots using the virtual structure approach. , 2011, , .		6
189	Model reduction of nonlinear systems with bounded incremental $\ \cdot \ _2$ gain. , 2011, , .		6
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