

# Henk Nijmeijer

## 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.

303  
papers

9,747  
citations

44  
h-index

93  
g-index

336  
ext. papers

11,664  
ext. citations

3.2  
avg, IF

6.44  
L-index

#	Paper	IF	Citations
303	A control strategy for merging a single vehicle into a platoon at highway on-ramps. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2022</b> , 136, 103511	8.4	3
302	Robust CACC in the Presence of Uncertain Delays. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	1
301	A Method for Computation and Analysis of Partial Synchronization Manifolds of Delay Coupled Systems. <i>Advances in Delays and Dynamics</i> , <b>2022</b> , 209-230	0.3	
300	Stability and performance analysis of hybrid integrator-gain systems: A linear matrix inequality approach. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2022</b> , 45, 101192	4.5	0
299	Fast fluid heating by adaptive flow reorientation. <i>International Journal of Thermal Sciences</i> , <b>2022</b> , 180, 107720	4.1	
298	Detecting coexisting oscillatory patterns in delay coupled Lur'e systems. <i>Chaos</i> , <b>2021</b> , 31, 033114	3.3	
297	State Estimation for Cooperative Lateral Vehicle Following Using Vehicle-to-Vehicle Communication. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 651	2.6	4
296	Driver Intervention Detection via Real-Time Transfer Function Estimation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 772-781	6.1	2
295	Optimal Thermal Actuation for Mitigation of Heat-Induced Wafer Deformation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 514-529	4.8	2
294	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
293	The method of images in thermoelasticity with an application to wafer heating. <i>Journal of Thermal Stresses</i> , <b>2021</b> , 44, 970-1010	2.2	0
292	Cooperative Driving of Automated Vehicles Using B-Splines for Trajectory Planning. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2021</b> , 6, 594-604	5	8
291	Projection-based integrators for improved motion control: Formalization, well-posedness and stability of hybrid integrator-gain systems. <i>Automatica</i> , <b>2021</b> , 133, 109830	5.7	1
290	Frequency-domain Conditions for Global Synchronization of Nonlinear Systems Driven by a Nonperiodic External Signal. <i>Contribution to Gennady Leonov. Lobachevskii Journal of Mathematics</i> , <b>2021</b> , 42, 3344-3351	0.9	0
289	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
288	A Computational Design Framework for Pressure-driven Soft Robots through Nonlinear Topology Optimization <b>2020</b> ,		6
287	Hybrid Integrator-Gain Systems: A Remedy for Overshoot Limitations in Linear Control? <b>2020</b> , 4, 1042-1047		9

286	Extended Look-Ahead Tracking Controller With Orientation-Error Observer for Vehicle Platooning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 21, 4808-4821	6.1	5
285	Robust partial synchronization of delay-coupled networks. <i>Chaos</i> , <b>2020</b> , 30, 013126	3.3	3
284	Gap Opening Controller Design to Accommodate Merges in Cooperative Autonomous Platoons. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 15294-15299	0.7	1
283	Dynamic modeling of hyper-elastic soft robots using spatial curves. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 9238-9243	2.4	1
282	Cooperative Adaptive Cruise Control of Heterogeneous Vehicle Platoons. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 15217-15222	0.7	3
281	Switching from autopilot to the driver: A transient performance analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2020</b> , 234, 1346-1360	1.4	3
280	Compensation of Communication Delays in a Cooperative ACC System. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 1177-1189	6.8	26
279	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
278	Experimental Demonstration of a Nonlinear PID-Based Control Design Using Multiple Hybrid Integrator-Gain Elements <b>2020</b> ,		1
277	Combined Longitudinal and Lateral Control of Car-Like Vehicle Platooning With Extended Look-Ahead. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 790-803	4.8	15
276	Reference Spreading: Tracking Performance for Impact Trajectories of a 1DoF Setup. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 1124-1131	4.8	2
275	Sensor and Actuator Placement for Proportional Feedback Control in Advection-Diffusion Equations <b>2020</b> , 4, 193-198		3
274	The Effect of Controller Design on Delayed Bilateral Teleoperation Performance: An Experimental Comparison. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 1727-1740	4.8	1
273	A Stochastic Model Predictive Control Approach for Driver-Aided Intersection Crossing With Uncertain Driver Time Delay <b>2019</b> ,		2
272	Automated Lane Changing With a Controlled Steering-Wheel Feedback Torque for Low Lateral Acceleration Purposes. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2019</b> , 4, 578-587	5	2
271	Enforcing synchronization in oscillators with Huygens's coupling via feed-forward control. <i>Nonlinear Dynamics</i> , <b>2019</b> , 98, 3009-3023	5	1
270	Data-Rate Constrained Observers of Nonlinear Systems. <i>Entropy</i> , <b>2019</b> , 21,	2.8	2
269	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

268	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
267	Robust Stability and Nonlinear Loop-Shaping Design for Hybrid Integrator-Gain-Based Control Systems <b>2019</b> ,		5
266	Sensitivity analysis for trajectories of nonsmooth mechanical systems with simultaneous impacts: a hybrid systems perspective <b>2019</b> ,		1
265	Linear Parameter-Varying Control of Nonlinear Systems based on Incremental Stability. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 38-43	0.7	2
264	Modeling of Energy Losses During Cornering for Electric City Buses <b>2019</b> ,		2
263	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
262	Almost global decentralised formation tracking for multiple distinct UAVs. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 186-191	0.7	1
261	Dynamic coupling enhances network synchronization. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 610-615	0.7	3
260	Pattern Analysis in Networks of Diffusively Coupled Lurĳ Systems. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2019</b> , 29, 1950200	2	2
259	Smith Predictor Compensating for Vehicle Actuator Delays in Cooperative ACC Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 1106-1115	6.8	24
258	Implementation and validation of a three degrees of freedom steering-system model in a full vehicle model. <i>Vehicle System Dynamics</i> , <b>2019</b> , 57, 86-107	2.8	2
257	Semi-analytic approximation of the temperature field resulting from moving heat loads. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 122, 128-137	4.9	15
256	Direct Force-Reflecting Two-Layer Approach for Passive Bilateral Teleoperation With Time Delays. <i>IEEE Transactions on Robotics</i> , <b>2018</b> , 34, 194-206	6.5	21
255	Motion Signals With Velocity Jumps: Velocity Estimation Employing Only Quantized Position Data. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 1498-1505	4.2	3
254	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
253	Battery electric vehicle energy consumption prediction for a trip based on route information. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2018</b> , 232, 1528-1542	1.4	23
252	Synchronization of light-sensitive Hindmarsh-Rose neurons. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2018</b> , 57, 322-330	3.7	5
251	Enhancing master-slave synchronization: The effect of using a dynamic coupling. <i>Physical Review E</i> , <b>2018</b> , 98, 012208	2.4	14

250 Experimental Validation of Torsional Controllers for Drilling Systems **2018**, 291-334

249 Cooperative Intersection Control Based on Virtual Platooning. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 1727-1740 6.1 49

248 Controller Design for Cooperative Driving with Guaranteed Safe Behavior **2018**, 5

247 Distributed Scenario Model Predictive Control for Driver Aided Intersection Crossing **2018**, 4

246 Cross-Domain Modeling and Optimization of High-Speed Visual Servo Systems **2018**, 1

245 Pattern Prediction in Networks of Diffusively Coupled Nonlinear Systems. *IFAC-PapersOnLine*, **2018**, 51, 62-67 0.7 1

244 A Lyapunov approach to stability analysis of partial synchronization in delay-coupled networks. *IFAC-PapersOnLine*, **2018**, 51, 198-204 0.7 1

243 Iterative pole-zero finite element model updating using generic parameters. *Mechatronics*, **2018**, 55, 180-193 3 2

242 Nonlinear output-feedback control of torsional vibrations in drilling systems. *International Journal of Robust and Nonlinear Control*, **2017**, 27, 3659 3.6 18

241 On Centroidal Dynamics and Integrability of Average Angular Velocity. *IEEE Robotics and Automation Letters*, **2017**, 2, 943-950 4.2 8

240 Synchronization Control for a Swarm of Unicycle Robots: Analysis of Different Controller Topologies. *Asian Journal of Control*, **2017**, 19, 1822 1.7 7

239 Adaptive Training of Neural Networks for Control of Autonomous Mobile Robots. *Lecture Notes in Control and Information Sciences*, **2017**, 387-405 0.5 0

238 Experimental Validation of Robust Chatter Control for High-Speed Milling Processes. *Advances in Delays and Dynamics*, **2017**, 315-331 0.3 3

237 Large amplitude dynamic behavior of thrust air bearings: Modeling and experiments. *Tribology International*, **2017**, 109, 460-466 4.9 5

236 A Spatial Approach to Control of Platooning Vehicles: Separating Path-Following from Tracking. *IFAC-PapersOnLine*, **2017**, 50, 15000-15005 0.7 4

235 Consensus Control for a Multiagent System with Time Delays. *Mathematical Problems in Engineering*, **2017**, 2017, 1-11 1.1 4

234 Hybrid integrator design for enhanced tracking in motion control **2017**, 11

233 Experimentally Validated Model Predictive Controller for a Hexacopter \* \*The authors gratefully acknowledge the partial sponsorship by DSTG, Australia.. *IFAC-PapersOnLine*, **2017**, 50, 4076-4081 0.7 6

232	Multi-objective platoon maneuvering using artificial potential fields. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 15006-15011	0.7	10
231	Vehicle State Estimation Using a State Dependent Riccati Equation. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 3388-3393	0.7	4
230	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
229	Active Trailer Steering Control for High-Capacity Vehicle Combinations. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2017</b> , 2, 251-265	5	11
228	Almost global tracking control of a quadrotor UAV on SE(3) <b>2017</b> ,		4
227	Control of humanoid robot motions with impacts: Numerical experiments with reference spreading control <b>2017</b> ,		11
226	Training a Network of Electronic Neurons for Control of a Mobile Robot. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2016</b> , 26, 1650196	2	5
225	Synchronization and Partial Synchronization Experiments with Networks of Time-Delay Coupled Hindmarsh-Rose Neurons. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2016</b> , 26, 1650111	2	8
224	Coupling-modulated multi-stability and coherent dynamics in directed networks of heterogeneous nonlinear oscillators with modular topology. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 62-67	0.7	4
223	The sympathy of two pendulum clocks: beyond Huygens' observations. <i>Scientific Reports</i> , <b>2016</b> , 6, 23580	4.9	41
222	Combined lateral and longitudinal CACC for a unicycle-type platoon <b>2016</b> ,		14
221	A robust control analysis for a steer-by-wire vehicle with uncertainty on the tyre forces. <i>Vehicle System Dynamics</i> , <b>2016</b> , 54, 1247-1268	2.8	9
220	Merging Strategy for Vehicles by Applying Cooperative Tracking Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2016</b> , 17, 3423-3433	6.1	17
219	Modelling and simulation of a compliant tilting pad air bearing. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2016</b> , 230, 69-87	1.3	2
218	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
217	Rule-based control of a semi-active suspension for minimal sprung mass acceleration: design and measurement. <i>Vehicle System Dynamics</i> , <b>2016</b> , 54, 281-300	2.8	9
216	Split-path nonlinear integral control for transient performance improvement. <i>Automatica</i> , <b>2016</b> , 66, 262-270	3.7	11
215	Pad Approximation of Delays in Cooperative ACC Based on String Stability Requirements. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2016</b> , 1, 277-286	5	27

214	Huygens' inspired multi-pendulum setups: Experiments and stability analysis. <i>Chaos</i> , <b>2016</b> , 26, 116304	3.3	7
213	The Poincaré method: A powerful tool for analyzing synchronization of coupled oscillators. <i>Indagationes Mathematicae</i> , <b>2016</b> , 27, 1127-1146	0.6	4
212	Robust Network Synchronization of Time-Delayed Coupled Systems. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 74-79	0.7	3
211	Synchronization of coupled Hindmarsh-Rose neurons: Effects of an exogenous parameter. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 84-89	0.7	4
210	Consensus-based bi-directional CACC for vehicular platooning <b>2016</b> ,		9
209	Hybrid Trajectory Tracking for a Hopping Robotic Leg. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 107-112	0.7	4
208	Second-order reset elements for stage control design <b>2016</b> ,		9
207	Network synchronization of time-delayed coupled nonlinear systems using predictor-based diffusive dynamic couplings. <i>Chaos</i> , <b>2015</b> , 25, 023108	3.3	9
206	Fixed-structure robust controller design for chatter mitigation in high-speed milling. <i>International Journal of Robust and Nonlinear Control</i> , <b>2015</b> , 25, 3495-3514	3.6	4
205	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
204	Network synchronization using invariant-manifold-based diffusive dynamic couplings with time-delay. <i>Automatica</i> , <b>2015</b> , 57, 34-44	5.7	20
203	Switched position-force tracking control of a manipulator interacting with a stiff environment <b>2015</b> ,		3
202	Pyragas-type feedback control for chatter mitigation in high-speed milling. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 334-339	0.7	8
201	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
200	Active trailer steering for robotic tractor-trailer combinations <b>2015</b> ,		6
199	Trajectory tracking of mechanical systems with unilateral constraints: Experimental results of a recently introduced hybrid PD feedback controller <b>2015</b> ,		7
198	Predictor-based consensus control of a multi-agent system with time-delays <b>2015</b> ,		5
197	Directed cycles and multi-stability of coherent dynamics in systems of coupled nonlinear oscillators. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 19-24	0.7	1

196	Synchronization in Cartesian-Product Networks of Time-Delay Coupled Systems. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 245-250	0.7	1
195	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2015</b> , 16, 488-497	6.1	138
194	On optimal trajectory tracking for mechanical systems with unilateral constraints <b>2015</b> ,		11
193	Automation of a T-intersection Using Virtual Platoons of Cooperative Autonomous Vehicles <b>2015</b> ,		19
192	A two-layer architecture for force-reflecting bilateral teleoperation with time delays <b>2015</b> ,		1
191	Energy analysis of the Von Schlippe tyre model with application to shimmy. <i>Vehicle System Dynamics</i> , <b>2015</b> , 53, 1795-1810	2.8	6
190	Robust output-feedback control to eliminate stick-slip oscillations in drill-string systems. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 266-271	0.7	15
189	The effect of damping on the perception of hardness <b>2015</b> ,		10
188	Network Topology and Synchronization of Systems with Linear Time-Delayed Coupling. <i>Lecture Notes in Control and Information Sciences</i> , <b>2015</b> , 321-341	0.5	
187	Global Exponential Stabilization of a Two-Dimensional Pool-Boiling Model. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 205-210	5.9	1
186	Effect of hinge friction on the steady-state response of base-excited shallow arches. <i>JVC/Journal of Vibration and Control</i> , <b>2014</b> , 20, 1877-1894	2	
185	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
184	Synchronization of Identical Linear Systems and Diffusive Time-Delayed Couplings. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2014</b> , 61, 1801-1814	3.9	11
183	Further understanding of Huygens-coupled clocks: The effect of stiffness. <i>Physica D: Nonlinear Phenomena</i> , <b>2014</b> , 270, 11-19	3.3	19
182	Output-based modal control of three-dimensional pool-boiling systems. <i>International Journal of Thermal Sciences</i> , <b>2014</b> , 82, 34-46	4.1	4
181	Battery thermal management by boiling heat-transfer. <i>Energy Conversion and Management</i> , <b>2014</b> , 79, 9-17	10.6	93
180	Partial Network Synchronization Using Diffusive Dynamic Couplings. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 4675-4680		1
179	Adaptive Observers for Nonlinearly Parameterized Systems Subjected to Parametric Constraints. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 10869-10874		2



178	Finite Element Model Reduction and Model Updating of structures for Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 4517-4522		9
177	Controlled synchronization: a Huygens' inspired approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 3098-3103		2
176	Application of nonlinear tyre models to analyse shimmy. <i>Vehicle System Dynamics</i> , <b>2014</b> , 52, 387-404	2.8	21
175	Observer-based output-feedback control to eliminate torsional drill-string vibrations <b>2014</b> ,		5
174	Direct Motion Planning for Vision-Based Control. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2014</b> , 11, 1282-1288	4.9	9
173	Sensitivity analysis of hybrid systems with state jumps with application to trajectory tracking <b>2014</b> ,		19
172	A dither-free extremum-seeking control approach using 1st-order least-squares fits for gradient estimation <b>2014</b> ,		16
171	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2014</b> , 15, 854-865	6.1	257
170	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2014</b> , 15, 1527-1537	6.1	235
169	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
168	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
167	Experimental Validation of Object Positioning Via Stick-Slip Vibrations. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2014</b> , 19, 1092-1101	5.5	6
166	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
165	Transient performance improvement of linear systems using a split-path nonlinear integrator <b>2014</b> ,		6
164	Networks of diffusively time-delay coupled systems: Conditions for synchronization and its relation to the network topology. <i>Physica D: Nonlinear Phenomena</i> , <b>2014</b> , 277, 22-39	3.3	19
163	Adaptive observers and parameter estimation for a class of systems nonlinear in the parameters. <i>Automatica</i> , <b>2013</b> , 49, 2409-2423	5.7	60
162	Synchronization of weakly nonlinear oscillators with Huygens' coupling. <i>Chaos</i> , <b>2013</b> , 23, 033118	3.3	21
161	Model reduction for nonlinear systems with incremental gain or passivity properties. <i>Automatica</i> , <b>2013</b> , 49, 861-872	5.7	26

160	Time Delay Compensation in Bilateral Teleoperations Using IMPACT. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 704-715	4.8	11
159	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
158	Accuracy Assessment of Thermoacoustic Instability Models Using Binary Classification. <i>International Journal of Spray and Combustion Dynamics</i> , <b>2013</b> , 5, 201-224	1.3	6
157	Model-based piecewise affine variable-gain controller synthesis <b>2013</b> ,		1
156	Qualitative validation of humanoid robot models through balance recovery side-stepping experiments <b>2013</b> ,		2
155	Learning in the synthesis of data-driven variable-gain controllers <b>2013</b> ,		5
154	Graceful degradation of CACC performance subject to unreliable wireless communication <b>2013</b> ,		35
153	Vehicle state estimator based regenerative braking implementation on an electric vehicle to improve lateral vehicle stability <b>2013</b> ,		2
152	Evaluating the TU/e Lupo EL BEV performance <b>2013</b> ,		2
151	NETWORK SYNCHRONIZATION BY DYNAMIC DIFFUSIVE COUPLING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2013</b> , 23, 1350076	2	4
150	Foot Placement Indicator for Balance of Planar Bipedes with Point Feet. <i>International Journal of Advanced Robotic Systems</i> , <b>2013</b> , 10, 250	1.4	4
149	Steady-state dynamics of a 3D tensegrity structure: Simulations and experiments. <i>International Journal of Solids and Structures</i> , <b>2012</b> , 49, 973-988	3.1	9
148	Robust Active Chatter Control in the High-Speed Milling Process. <i>IEEE Transactions on Control Systems Technology</i> , <b>2012</b> , 20, 901-917	4.8	86
147	Feedback stabilisation of a two-dimensional pool-boiling system by modal control. <i>International Journal of Thermal Sciences</i> , <b>2012</b> , 61, 38-49	4.1	4
146	Steady-state performance optimization for variable-gain motion control using extremum seeking <b>2012</b> ,		3
145	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
144	Collective almost synchronisation in complex networks. <i>PLoS ONE</i> , <b>2012</b> , 7, e48118	3.7	11
143	Partial synchronization in diffusively time-delay coupled oscillator networks. <i>Chaos</i> , <b>2012</b> , 22, 043144	3.3	30

142	String stability of interconnected vehicles under communication constraints <b>2012</b> ,		48
141	Analysis of the lateral dynamic behaviour of articulated commercial vehicles. <i>Vehicle System Dynamics</i> , <b>2012</b> , 50, 169-189	2.8	24
140	Feed forward visual servoing for object exploration <b>2012</b> ,		2
139	Controlled Synchronization in Networks of Nonlinear Systems via Dynamic Coupling* *This work was partially supported by the Mexican Council for Science and Technology (CONACYT).. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 261-266		2
138	An experimental study on synchronization of nonlinear oscillators with Huygens' coupling. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2012</b> , 3, 128-142	0.6	7
137	Output Feedback Tracking of Ships. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 442-448	4.8	73
136	Model-based analysis and control of axial and torsional stick-slip oscillations in drilling systems <b>2011</b> ,		7
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129	Formation control of unicycle robots using the virtual structure approach <b>2011</b> ,		3
128	Model reduction of nonlinear systems with bounded incremental $\mathcal{L}_2$ gain <b>2011</b> ,		5
127	Design and experimental evaluation of cooperative adaptive cruise control <b>2011</b> ,		260
126	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
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121	Trajectory tracking control for a tele-operation setup with disturbance estimation and compensation <b>2010</b> ,		11
120	Collision-free motion coordination of unicycle multi-agent systems <b>2010</b> ,		10
119	An application of IMPACT structure to bilateral teleoperations <b>2010</b> ,		1
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105	Control scheme for human-robot co-manipulation of uncertain, time-varying loads <b>2009</b> ,		12
104	Semi-passivity and synchronization of diffusively coupled neuronal oscillators. <i>Physica D: Nonlinear Phenomena</i> , <b>2009</b> , 238, 2119-2128	3.3	95
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95	Improving yaw dynamics by feedforward rear wheel steering <b>2008</b> ,		4
94	Boosting human force: A robotic enhancement of a human operator's force <b>2008</b> ,		4
93	Output-feedback control of Lur'e-type systems with set-valued nonlinearities: A Popov-criterion approach <b>2008</b> ,		5
92	Synchronization in networks of chaotic systems with time-delay coupling. <i>Chaos</i> , <b>2008</b> , 18, 037108	3.3	58
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82	Global nonlinear output regulation: Convergence-based controller design. <i>Automatica</i> , <b>2007</b> , 43, 456-463	3.7	35
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71	Practical stabilization of a mobile robot using saturated control <b>2006</b> ,		5

70	A Stabilizing Output Based Nonlinear Model Predictive Control Scheme <b>2006</b> ,		2
69	Robust Stability of Networked Control Systems with Time-varying Network-induced Delays <b>2006</b> ,		57
68	Friction compensation in a controlled one-link robot using a reduced-order observer. <i>IEEE Transactions on Control Systems Technology</i> , <b>2006</b> , 14, 374-383	4.8	61
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66	EXPERIMENTAL RESULTS ON HUYGENS SYNCHRONIZATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 113-118		2
65	ACTIVE DISTURBANCE ATTENUATION FOR AN EXPERIMENTAL PIECEWISE LINEAR BEAM SYSTEM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 395-400		1
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59	OUTPUT BASED CONTROL FOR AN UNDERACTUATED SYSTEM: EXPERIMENTAL RESULTS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 400-405		
58	The local approximate output regulation problem: convergence region estimates. <i>International Journal of Robust and Nonlinear Control</i> , <b>2005</b> , 15, 1-13	3.6	2
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49	Observer-based model predictive control. <i>International Journal of Control</i> , <b>2004</b> , 77, 1452-1462	1.5	8
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45	Observer-based compensation of discontinuous friction <b>2004</b> ,		11
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42	Prediction of regenerative chatter by modelling and analysis of high-speed milling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2003</b> , 43, 1437-1446	9.4	198
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9	Bounded tracking controllers for the chaotic (forced) Duffing equation		1
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6	Control of manufacturing systems using state feedback and linear programming		2
5	Equivalence of disturbance observer structures for linear systems		3
4	Tracking control of an underactuated surface vessel		31
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