

# Maarten Steinbuch

## 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

5,627  
citations

37  
h-index

65  
g-index

343  
ext. papers

6,818  
ext. citations

3.2  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
303	Revisiting static charge schedules for electric vehicles as temporary solution to low-voltage grid congestion with recent charging and grid data. <i>Sustainable Energy, Grids and Networks</i> , <b>2022</b> , 100701	3.6	2
302	Motion Control, Mechatronics Design, and Moore's Law. <i>IEEJ Journal of Industry Applications</i> , <b>2021</b> ,	0.7	2
301	A Concept for Accurate Edge-Coupled Multi-Fiber Photonic Interconnects. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 1374-1380	4	1
300	A representation method based on the probability of collision for safe robot navigation in domestic environments. <i>Autonomous Robots</i> , <b>2018</b> , 42, 601-614	3	0
299	A task analysis approach to quantify bottlenecks in task completion time of telemanipulated maintenance. <i>Fusion Engineering and Design</i> , <b>2018</b> , 129, 300-308	1.7	2
298	A comparative overview of frequency domain methods for nonlinear systems. <i>Mechatronics</i> , <b>2017</b> , 42, 11-24	3	17
297	Periodic Signal Tracking for Lightly Damped Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2017</b> , 139,	1.6	1
296	Broadband damping of high-precision motion stages. <i>Mechatronics</i> , <b>2017</b> , 41, 1-16	3	5
295	Iterative Learning Control and feedforward for LPV systems: Applied to a position-dependent motion system <b>2017</b> ,		7
294	Cloud based centralized task control for human domain multi-robot operations. <i>Intelligent Service Robotics</i> , <b>2016</b> , 9, 63-77	2.6	10
293	Review of Optimization Strategies for System-Level Design in Hybrid Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 1-1	6.8	96
292	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 670-678	4.8	5
291	Robust High Performance Bilateral Teleoperation Under Bounded Time-Varying Dynamics. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 206-218	4.8	7
290	Linear viscoelastic fluid characterization of ultra-high-viscosity fluids for high-frequency damper design. <i>Rheologica Acta</i> , <b>2015</b> , 54, 667-677	2.3	7
289	Implementation of Dynamic Programming for Optimal Control Problems With Continuous States. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 1172-1179	4.8	16
288	Application of a Time-Delay Pre-Filter Design for Periodic Signal Tracking of Lightly-Damped Multivariable Systems**The research leading to these results has received funding from the Dutch ministry of Economic affairs and is part of the joint Eindhoven University of Technology/Philips Healthcare MixR Project.. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 135-140	0.7	1
287	Non-diagonal H <sub>∞</sub> weighting function design: Exploiting spatio-temporal deformations in precision motion control. <i>Control Engineering Practice</i> , <b>2015</b> , 35, 35-42	3.9	3

286	Semi-task-dependent and uncertainty-driven world model maintenance. <i>Autonomous Robots</i> , <b>2015</b> , 38, 1-15	3	1
285	Model-based geometric calibration for medical x-ray systems. <i>Medical Physics</i> , <b>2015</b> , 42, 6170-81	4.4	2
284	Second-Order Iterative Learning Control for Scaled Setpoints. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 805-812	4.8	3
283	Control of a Waste Heat Recovery system with decoupled expander for improved diesel engine efficiency <b>2015</b> ,		4
282	Effect of gear shift and engine start losses on energy management strategies for hybrid electric vehicles. <i>International Journal of Powertrains</i> , <b>2015</b> , 4, 141	0.5	6
281	Time-delay pre-filter design for vibration free tracking of periodic reference signals <b>2015</b> ,		1
280	Nanometre-accurate form measurement machine for E-ELT M1 segments. <i>Precision Engineering</i> , <b>2015</b> , 40, 14-25	2.9	3
279	Notch Filters for Port-Hamiltonian Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 2440-2445	5.9	2
278	Computation of transfer function data from frequency response data with application to data-based root-locus. <i>Control Engineering Practice</i> , <b>2015</b> , 37, 20-31	3.9	2
277	Iterative motion feedforward tuning: A data-driven approach based on instrumental variable identification. <i>Control Engineering Practice</i> , <b>2015</b> , 37, 11-19	3.9	59
276	Fast and smooth clutch engagement control for dual-clutch transmissions. <i>Control Engineering Practice</i> , <b>2014</b> , 22, 57-68	3.9	51
275	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 1555-1566	6.8	13
274	Solution for state constrained optimal control problems applied to power split control for hybrid vehicles. <i>Automatica</i> , <b>2014</b> , 50, 187-192	5.7	55
273	Topology and Flywheel Size Optimization for Mechanical Hybrid Powertrains. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 4192-4205	6.8	17
272	Gain Scheduling Control of a Walking Piezo Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2014</b> , 19, 954-962	5.5	8
271	Fast and Smooth Clutch Engagement Control for a Mechanical Hybrid Powertrain. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 1241-1254	4.8	31
270	Data-based spatial feedforward for over-actuated motion systems. <i>Mechatronics</i> , <b>2014</b> , 24, 679-690	3	3
269	A dynamic state observer for real-time reconstruction of the tokamak plasma profile state and disturbances <b>2014</b> ,		10

268	Two-phase plate-fin heat exchanger modeling for waste heat recovery systems in diesel engines. <i>Applied Energy</i> , <b>2014</b> , 133, 183-196	10.7	43
267	Optimally conditioned instrumental variable approach for frequency-domain system identification. <i>Automatica</i> , <b>2014</b> , 50, 2281-2293	5.7	24
266	Real-time optical plasma boundary reconstruction for plasma position control at the TCV Tokamak. <i>Nuclear Fusion</i> , <b>2014</b> , 54, 073018	3.3	16
265	Frequency domain based real-time performance optimization of Lur'e systems. <i>Mechanical Systems and Signal Processing</i> , <b>2014</b> , 42, 58-70	7.8	4
264	Exploiting additional actuators and sensors for nano-positioning robust motion control. <i>Mechatronics</i> , <b>2014</b> , 24, 619-631	3	25
263	Learning intentions for improved human motion prediction. <i>Robotics and Autonomous Systems</i> , <b>2014</b> , 62, 591-602	3.5	29
262	Directional notch filters for motion control of flexible structures. <i>Mechatronics</i> , <b>2014</b> , 24, 632-639	3	14
261	Model-based spatial feedforward for over-actuated motion systems. <i>Mechatronics</i> , <b>2014</b> , 24, 307-317	3	19
260	Task analysis of human-in-the-loop tele-operated maintenance: What can be learned from JET?. <i>Fusion Engineering and Design</i> , <b>2014</b> , 89, 2283-2288	1.7	5
259	Combining extremum seeking control and tracking control for high-performance CVT operation. <i>Control Engineering Practice</i> , <b>2014</b> , 29, 86-102	3.9	6
258	Planar feature-based motion control for near-repetitive structures. <i>Control Engineering Practice</i> , <b>2014</b> , 29, 123-134	3.9	
257	Extremum Seeking Control With Adaptive Disturbance Feedforward. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 383-388		4
256	On numerically reliable frequency-domain system identification: new connections and a comparison of methods. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 10018-10023		4
255	A representation method based on the probability of collision for safe robot navigation in domestic environments <b>2014</b> ,		4
254	Comparison of Bi-Level Optimization Frameworks for Sizing and Control of a Hybrid Electric Vehicle <b>2014</b> ,		19
253	Model predictive control of a waste heat recovery system for automotive diesel engines <b>2014</b> ,		11
252	Modeling and Control of a Parallel Waste Heat Recovery System for Euro-VI Heavy-Duty Diesel Engines. <i>Energies</i> , <b>2014</b> , 7, 6571-6592	3.1	48
251	Semi-empirical power dissipation modelling of mechanical hybrid powertrain components. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2014</b> , 228, 443-456	1.4	3

250	Aspects in inferential Iterative Learning Control: A 2D systems analysis <b>2014</b> ,		2
249	Extremum seeking control with data-based disturbance feedforward <b>2014</b> ,		3
248	Accuracy aspects in motion feedforward tuning <b>2014</b> ,		13
247	Connecting System Identification and Robust Control for Next-Generation Motion Control of a Wafer Stage. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 102-118	4.8	88
246	Using iterative learning control with basis functions to compensate medium deformation in a wide-format inkjet printer. <i>Mechatronics</i> , <b>2014</b> , 24, 944-953	3	40
245	On inferential Iterative Learning Control: With example to a printing system <b>2014</b> ,		7
244	Exploiting additional actuators and sensors for nano-positioning robust motion control <b>2014</b> ,		8
243	High performance teleoperation by bumpless transfer of robust controllers <b>2014</b> ,		2
242	Gear shift map design methodology for automotive transmissions. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2014</b> , 228, 50-72	1.4	16
241	Topology Optimization of Hybrid Power Trains. <i>Lecture Notes in Control and Information Sciences</i> , <b>2014</b> , 181-198	0.5	3
240	Active Object Search Exploiting Probabilistic Object-Object Relations. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 13-24	0.9	4
239	Sharing Open Hardware through ROP, the Robotic Open Platform. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 584-591	0.9	4
238	Switching Robust Control Synthesis for Teleoperation via Dwell Time Conditions. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 158-166	0.9	
237	Analysis of human-in-the-loop tele-operated maintenance inspection tasks using VR. <i>Fusion Engineering and Design</i> , <b>2013</b> , 88, 2164-2167	1.7	11
236	Optimal gear shift strategies for fuel economy and driveability. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2013</b> , 227, 1398-1413	1.4	44
235	Design and control of high tech systems <b>2013</b> ,		3
234	Model-based approach to minimize system calibrations for 3D reconstruction quality of a cone-beam CT system <b>2013</b> ,		2
233	Semantic world modeling using probabilistic multiple hypothesis anchoring. <i>Robotics and Autonomous Systems</i> , <b>2013</b> , 61, 95-105	3.5	30

232	Optimal higher-order encoder time-stamping. <i>Mechatronics</i> , <b>2013</b> , 23, 481-490	3	34
231	Deformable mirrors with thermo-mechanical actuators for extreme ultraviolet lithography: Design, realization and validation. <i>Precision Engineering</i> , <b>2013</b> , 37, 353-363	2.9	16
230	Learning intentions for improved human motion prediction <b>2013</b> ,		1
229	A fast, magnetics-free flux surface estimation and q-profile reconstruction algorithm for feedback control of plasma profiles. <i>Plasma Physics and Controlled Fusion</i> , <b>2013</b> , 55, 025007	2	5
228	Frequency domain-based nonlinearity detection and compensation in Lur'e systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2013</b> , 23, 1168-1182	3.6	10
227	Minimizing the number of iterations when computing a base pose for manipulation by mobile base inclusion in the inverse kinematics <b>2013</b> ,		1
226	Heat exchanger modeling and identification for control of Waste Heat Recovery systems in diesel engines <b>2013</b> ,		7
225	Exploiting rational basis functions in iterative learning control <b>2013</b> ,		4
224	Integrating planning and execution for ROS enabled service robots using hierarchical action representations <b>2013</b> ,		4
223	Feedforward for flexible systems with time-varying performance locations <b>2013</b> ,		4
222	Switching Robust Control for Transparent and Stable Teleoperation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 530-536		
221	Experimental Validation of a Dynamic Waste Heat Recovery System Model for Control Purposes <b>2013</b> ,		14
220	Under Actuated Air Path Control of Diesel Engines for Low Emissions and High Efficiency. <i>Lecture Notes in Electrical Engineering</i> , <b>2013</b> , 725-737	0.2	2
219	Design, implementation, and experimental validation of optimal power split control for hybrid electric trucks. <i>Control Engineering Practice</i> , <b>2012</b> , 20, 547-558	3.9	36
218	Linear control of time-domain constrained systems. <i>Automatica</i> , <b>2012</b> , 48, 736-746	5.7	5
217	Frequency domain based nonlinear feed forward control design for friction compensation. <i>Mechanical Systems and Signal Processing</i> , <b>2012</b> , 27, 551-562	7.8	31
216	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 485-497	6.8	42
215	Uniquely connecting frequency domain representations of given order polynomial Wiener-Hammerstein systems. <i>Automatica</i> , <b>2012</b> , 48, 2381-2384	5.7	6

214	High Speed Visual Motion Control Applied to Products With Repetitive Structures. <i>IEEE Transactions on Control Systems Technology</i> , <b>2012</b> , 20, 1450-1460	4.8	7
213	<b>2012</b> ,		7
212	Improving Continuously Variable Transmission Efficiency With Extremum Seeking Control. <i>IEEE Transactions on Control Systems Technology</i> , <b>2012</b> , 20, 1376-1383	4.8	14
211	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 3531-3543	6.8	86
210	Robust sawtooth period control based on adaptive online optimization. <i>Nuclear Fusion</i> , <b>2012</b> , 52, 074006	5.3	5
209	A new mechanism for sawtooth period control. <i>EPJ Web of Conferences</i> , <b>2012</b> , 32, 02008	0.3	
208	Extending Energy Management in Hybrid Electric Vehicles with explicit control of gear shifting and start-stop <b>2012</b> ,		7
207	Sawtooth period control strategies and designs for improved performance. <i>Nuclear Fusion</i> , <b>2012</b> , 52, 074005	3.3	8
206	Model-based feedforward for inferential motion systems, with application to a prototype lightweight motion system <b>2012</b> ,		4
205	Robust performance control design for bilateral teleoperation under time-varying bounded operator and environment dynamics <b>2012</b> ,		2
204	Systematic design and simulation of a tearing mode suppression feedback control system for the TEXTOR tokamak. <i>Nuclear Fusion</i> , <b>2012</b> , 52, 074009	3.3	6
203	New Connections Between Frequency Response Functions for a Class of Nonlinear Systems*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 280-285		
202	Review of Optimal Design Strategies for Hybrid Electric Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 57-64		18
201	Analysis of optimal mechanical-hybrid powertrain topologies. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 41-48		3
200	High Performance and Stable Teleoperation under Bounded Operator and Environment Dynamics. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 373-379		8
199	Performance simulations of a low-cost hybrid powertrain with large fuel savings. <i>International Journal of Powertrains</i> , <b>2012</b> , 1, 377	0.5	3
198	ITER Upper Port Plug handling cask system assessment and design proposals. <i>Fusion Engineering and Design</i> , <b>2011</b> , 86, 1937-1940	1.7	3
197	Real-time wavelet detection of crashes in limit cycles of non-stationary fusion plasmas. <i>Fusion Engineering and Design</i> , <b>2011</b> , 86, 2908-2919	1.7	7

196	Predictive gear shift control for a parallel Hybrid Electric Vehicle <b>2011</b> ,		18
195	Spectral Analysis of Block Structured Nonlinear Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 4416-4421		
194	Optimal Trajectories for Vehicles with Energy Recovery Options*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 3831-3836		11
193	Analysis of modelling and simulation methodologies for vehicular propulsion systems. <i>International Journal of Powertrains</i> , <b>2011</b> , 1, 117	0.5	5
192	Model-Based Drift Control for Electron Microscopes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 8583-8588		4
191	Modeling and Waveform Optimization of a Nano-motion Piezo Stage. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2011</b> , 16, 615-626	5.5	37
190	Delay-varying repetitive control with application to a walking piezo actuator. <i>Automatica</i> , <b>2011</b> , 47, 1737-1743	5.7	17
189	Spectral analysis of block structured nonlinear systems and higher order sinusoidal input describing functions. <i>Automatica</i> , <b>2011</b> , 47, 2684-2688	5.7	24
188	The NANOMEFOS non-contact measurement machine for freeform optics. <i>Precision Engineering</i> , <b>2011</b> , 35, 607-624	2.9	44
187	Frequency domain based friction compensation - Industrial application to transmission electron microscopes - <b>2011</b> ,		4
186	Two level world modeling for cooperating robots using a multiple hypotheses filter <b>2011</b> ,		4
185	Systematic design of a sawtooth period feedback controller using a Kadomtsev-Borcelli sawtooth model. <i>Nuclear Fusion</i> , <b>2011</b> , 51, 073024	3.3	10
184	Hierarchical control for drift correction in transmission electron microscopes <b>2011</b> ,		3
183	A novel ball handling mechanism for the RoboCup middle size league. <i>Mechatronics</i> , <b>2011</b> , 21, 469-478	3	16
182	Directional Repetitive Control of a Metrological AFM. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 1622-1629	4.8	7
181	Belt-pulley friction estimation for the Continuously Variable Transmission <b>2011</b> ,		2
180	Numerical demonstration of injection locking of the sawtooth period by means of modulated EC current drive. <i>Nuclear Fusion</i> , <b>2011</b> , 51, 103043	3.3	9
179	A Validated Modular Model for Hydraulic Actuation in a Pushbelt Continuously Variable Transmission. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2011</b> , 133,	1.6	2



178	Optimal Energy Management in Hybrid Electric Trucks Using Route Information. <i>Oil and Gas Science and Technology</i> , <b>2010</b> , 65, 103-113	1.9	27
177	Combining extremum seeking control and tracking control for high-performance CVT operation <b>2010</b> ,		2
176	A robust-control-relevant model validation approach for continuously variable transmission control <b>2010</b> ,		2
175	<b>2010</b> ,		42
174	Second-order odd-harmonic repetitive control and its application to active filter control <b>2010</b> ,		9
173	Reference governors for controlled belt restraint systems. <i>Vehicle System Dynamics</i> , <b>2010</b> , 48, 831-850	2.8	6
172	Nonlinearities in Industrial motion stages - detection and classification <b>2010</b> ,		6
171	Frequency response data based optimal control using the data based symmetric root locus <b>2010</b> ,		4
170	Non-iterative data-driven controller tuning with guaranteed stability: Application to direct-drive pick-and-place robot <b>2010</b> ,		5
169	Robust control of a clutch system to prevent judder-induced driveline oscillations. <i>Vehicle System Dynamics</i> , <b>2010</b> , 48, 1379-1394	2.8	23
168	Optical boundary reconstruction of tokamak plasmas for feedback control of plasma position and shape. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 113504	1.7	26
167	A Model Predictive Control Approach to Design a Parameterized Adaptive Cruise Control. <i>Lecture Notes in Control and Information Sciences</i> , <b>2010</b> , 273-284	0.5	7
166	Improvement of fuel economy in Power-Shift Automated Manual Transmission through shift strategy optimization - an experimental study <b>2010</b> ,		14
165	Real-time control of tearing modes using a line-of-sight electron cyclotron emission diagnostic. <i>Plasma Physics and Controlled Fusion</i> , <b>2010</b> , 52, 104006	2	36
164	The design of a semi-automated football table <b>2010</b> ,		1
163	Cooperative adaptive cruise control, design and experiments <b>2010</b> ,		64
162	Control Relevant Blind Identification of Disturbances With Application to a Multivariable Active Vibration Isolation Platform. <i>IEEE Transactions on Control Systems Technology</i> , <b>2010</b> , 18, 393-404	4.8	6
161	An Enhanced CMM Model for the Accurate Prediction of Steady-State Performance of CVT Chain Drives. <i>Journal of Mechanical Design, Transactions of the ASME</i> , <b>2010</b> , 132,	3	19

160	ENERGY MANAGEMENT IN HYBRID ELECTRIC VEHICLES: BENEFIT OF PREDICTION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 264-269		10
159	Implementation of an Optimal Control Energy Management Strategy in a Hybrid Truck. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 61-66		6
158	Directional Repetitive Control of a Metrological AFM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 206-211		
157	Velocity and acceleration estimation for optical incremental encoders. <i>Mechatronics</i> , <b>2010</b> , 20, 20-26	3	65
156	Rejection of fixed direction disturbances in multivariable electromechanical motion systems. <i>Mechatronics</i> , <b>2010</b> , 20, 45-52	3	2
155	String-Stable CACC Design and Experimental Validation: A Frequency-Domain Approach. <i>IEEE Transactions on Vehicular Technology</i> , <b>2010</b> , 59, 4268-4279	6.8	489
154	Modeling of a walking piezo actuator. <i>Sensors and Actuators A: Physical</i> , <b>2010</b> , 162, 51-60	3.9	22
153	Design of a long stroke translation stage for AFM. <i>International Journal of Machine Tools and Manufacture</i> , <b>2010</b> , 50, 183-190	9.4	32
152	MIMO feed-forward design in wafer scanners using a gradient approximation-based algorithm. <i>Control Engineering Practice</i> , <b>2010</b> , 18, 495-506	3.9	73
151	Design and implementation of parameterized adaptive cruise control: An explicit model predictive control approach. <i>Control Engineering Practice</i> , <b>2010</b> , 18, 882-892	3.9	72
150	Performance analysis of reset control systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2010</b> , 20, 1213-1233	3.6	74
149	Advanced Motion Control Design. <i>The Electrical Engineering Handbook</i> , <b>2010</b> , 27-1-27-25		10
148	A Haptic Gearshift Interface for Cars. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 315-320	0.9	0
147	Model-free norm-based fixed structure controller synthesis <b>2009</b> ,		5
146	Dynamic decoupling in motion systems using a gradient approximation-based algorithm <b>2009</b> ,		2
145	Reading of cracked optical discs using Iterative Learning Control <b>2009</b> ,		1
144	Direct dynamic visual servoing at 1 kHz by using the product as 1.5D encoder <b>2009</b> ,		2
143	ECE system on ASDEX-upgrade placed inline at the high power waveguide based transmission system <b>2009</b> ,		3

142	Improving pushbelt continuously variable transmission efficiency via extremum seeking control <b>2009,</b>			4
141	Modeling and compensation of asymmetric hysteresis in a piezo actuated metrological AFM <b>2009,</b>			5
140	Linear control of time-domain constrained systems <b>2009,</b>			1
139	Deformable mirrors: design fundamentals for force actuation of continuous facesheets <b>2009,</b>			5
138	Design of CVT-Based Hybrid Passenger Cars. <i>IEEE Transactions on Vehicular Technology</i> , <b>2009</b> , 58, 572-588.8			27
137	Energy buffered carriage reversal for wide format printing systems. <i>Mechatronics</i> , <b>2009</b> , 19, 735-747	3		0
136	A closed-loop control system for stabilization of MHD events on TEXTOR. <i>Fusion Engineering and Design</i> , <b>2009</b> , 84, 928-934	1.7		12
135	Identification, control and hysteresis compensation of a 3 DOF metrological AFM. <i>Asian Journal of Control</i> , <b>2009</b> , 11, 130-143	1.7		42
134	Control-oriented modelling of occupants in frontal impacts. <i>International Journal of Crashworthiness</i> , <b>2009</b> , 14, 323-337	1		9
133	Repetitive control applied to a walking piezo actuator <b>2009,</b>			3
132	Nanometer level freeform surface measurements with the NANOMEFOS non-contact measurement machine <b>2009,</b>			4
131	Design of a minimally invasive surgical teleoperated master-slave system with haptic feedback <b>2009,</b>			18
130	Modeling of a walking piezo actuator <b>2009,</b>			3
129	Time-domain performance based non-linear state feedback control of constrained linear systems. <i>International Journal of Control</i> , <b>2009</b> , 82, 352-364	1.5		2
128	Using a Walking Piezo Actuator to Drive and Control a High-Precision Stage. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2009</b> , 14, 21-31	5.5		52
127	Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 150-164	0.9		25
126	Improving Maneuverability and Tactile Feedback in Medical Catheters by Optimizing the Valve Toward Minimal Friction. <i>Journal of Medical Devices, Transactions of the ASME</i> , <b>2009</b> , 3,	1.3		1
125	Recovering Data from Cracked Optical Discs using Hankel Iterative Learning Control <b>2009,</b> 147-166			

124	Adaptive Iterative Learning Control for High Precision Motion Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2008</b> , 16, 1075-1082	4.8	55
123	Reference governors for controlled belt restraint systems <b>2008</b> ,		1
122	Data-Driven Controller Unfalsification With Analytic Update Applied to a Motion System. <i>IEEE Transactions on Control Systems Technology</i> , <b>2008</b> , 16, 1207-1217	4.8	7
121	Explicit MPC design and performance-based tuning of an Adaptive Cruise Control Stop-&-Go <b>2008</b> ,		11
120	An LMI-based L2 gain performance analysis for reset control systems <b>2008</b> ,		1
119	Bias Removal in Higher Order Sinusoidal Input Describing Functions <b>2008</b> ,		1
118	Circle criterion in linear control design <b>2008</b> ,		5
117	Validation of a new adaptive deformable mirror concept <b>2008</b> ,		7
116	Modeling, identification and control of a metrological Atomic Force Microscope with a 3DOF stage <b>2008</b> ,		2
115	Norm optimal Cross-Coupled Iterative Learning Control <b>2008</b> ,		16
114	Continuous impulsive force controller for Forbidden-Region Virtual Fixtures <b>2008</b> ,		4
113	Explicit MPC design and performance evaluation of an ACC Stop-&-Go <b>2008</b> ,		22
112	Velocity and Acceleration Estimation for Optical Incremental Encoders. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 7570-7575		1
111	Hybrid component specification optimisation for a medium-duty hybrid electric truck. <i>International Journal of Heavy Vehicle Systems</i> , <b>2008</b> , 15, 356	0.5	13
110	The Impact CVT: modelling, simulation and experiments. <i>International Journal of Modelling, Identification and Control</i> , <b>2008</b> , 3, 286	0.6	5
109	An Adaptive Sub-Optimal Energy Management Strategy for Hybrid Drive-Trains. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 102-107		3
108	Rejection of fixed direction disturbances in multivariable electromechanical motion systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 176-181		
107	Rule-Based Equivalent Fuel Consumption Minimization Strategies for Hybrid Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 5652-5657		16

106	Iterative learning control with wavelet filtering. <i>International Journal of Robust and Nonlinear Control</i> , <b>2008</b> , 18, 1052-1071	3.6	10
105	Experimental characterization of the stick/sliding transition in a precision mechanical system using the third order sinusoidal input describing function. <i>Mechatronics</i> , <b>2008</b> , 18, 100-110	3	11
104	Measuring the higher order sinusoidal input describing functions of a non-linear plant operating in feedback. <i>Control Engineering Practice</i> , <b>2008</b> , 16, 101-113	3.9	16
103	Robust control of piecewise linear systems: A case study in sheet flow control. <i>Control Engineering Practice</i> , <b>2008</b> , 16, 991-1003	3.9	13
102	Data-driven multivariable controller design using Ellipsoidal Unfalsified Control. <i>Systems and Control Letters</i> , <b>2008</b> , 57, 759-762	2.4	19
101	<b>2007</b> ,		1
100	Parametric Modeling of Components for Selection and Specification of Hybrid Vehicle Drivetrains. <i>World Electric Vehicle Journal</i> , <b>2007</b> , 1, 215-224	2.5	5
99	Design of noise and period-time robust high-order repetitive control, with application to optical storage. <i>Automatica</i> , <b>2007</b> , 43, 2086-2095	5.7	114
98	Direct data-driven recursive controller unfalsification with analytic update. <i>Automatica</i> , <b>2007</b> , 43, 2034-2046	3.7	36
97	Mechatronic design of an active printhead alignment mechanism for wide format printing systems. <i>Mechatronics</i> , <b>2007</b> , 17, 109-120	3	2
96	Error modeling and improved position estimation for optical incremental encoders by means of time stamping. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	14
95	Cogging Compensating Piecewise Iterative Learning Control with application to a motion system. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	4
94	Data-driven multivariable controller design using Ellipsoidal Unfalsified Control. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	4
93	Multivariable control design for fixed direction disturbances. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	3
92	State Estimator Design for Real-time Controlled Restraint Systems. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	2
91	H2 performance analysis of reset control systems <b>2007</b> ,		3
90	Time-frequency analysis of position-dependent dynamics in a Motion System with ILC. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	4
89	Rule-based energy management strategies for hybrid vehicles. <i>International Journal of Electric and Hybrid Vehicles</i> , <b>2007</b> , 1, 71	0.7	146

88	Control of a high precision stage using a walking piezo actuator. <i>Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007,</i>		3
87	Blind identification and allocation of multivariate disturbances. <i>Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007,</i>		1
86	Real-time Control of the 3-DOF Sled Dynamics of a Null-Flux Maglev System with a Passive Sled <b>2006,</b>		2
85	Identification and control of a vehicle restraint system. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 401-413</i>	1.4	1
84	Sufficient Conditions for Data-driven Stability of Ellipsoidal Unfalsified Control <b>2006,</b>		1
83	Performance of variable-gain controlled optical storage drives <b>2006,</b>		5
82	Ellipsoidal unfalsified control: stability <b>2006,</b>		3
81	Modelling and LPV control of an electro-hydraulic servo system <b>2006,</b>		3
80	Development of a smart positioning sensor for the plasma needle. <i>Plasma Sources Science and Technology, 2006, 15, 582-589</i>	3.5	13
79	Plasma needle for in vivo medical treatment: recent developments and perspectives. <i>Plasma Sources Science and Technology, 2006, 15, S169-S180</i>	3.5	244
78	Optimization aided loop shaping for motion systems <b>2006,</b>		4
77	A piecewise linear approach towards sheet control in a printer paper path <b>2006,</b>		3
76	Control of a hydraulically actuated continuously variable transmission. <i>Vehicle System Dynamics, 2006, 44, 387-406</i>	2.8	28
75	ROBUST PIECEWISE LINEAR SHEET CONTROL IN A PRINTER PAPER PATH. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 142-147</i>		1
74	Feedback control of occupant motion during a crash. <i>International Journal of Crashworthiness, 2006, 11, 81-96</i>	1	8
73	RULE-BASED ENERGY MANAGEMENT STRATEGIES FOR HYBRID VEHICLE DRIVETRAINS: A FUNDAMENTAL APPROACH IN REDUCING COMPUTATION TIME. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 740-745</i>		10
72	Distributed control in adaptive optics: deformable mirror and turbulence modeling <b>2006,</b>		7
71	Higher-order sinusoidal input describing functions for the analysis of non-linear systems with harmonic responses. <i>Mechanical Systems and Signal Processing, 2006, 20, 1883-1904</i>	7.8	57

70	Optimization aided Loop Shaping for Motion Systems <b>2006</b> ,		2
69	Modelling and LPV control of an electro-hydraulic servo system <b>2006</b> ,		9
68	Robust Piecewise Linear Sheet Control in a Printer Paper Path <sup>11</sup> This work has been carried out as part of the Boderc project under the responsibility of the Embedded Systems Institute. This project is partially supported by the Netherlands Ministry of Economic Affairs under the Senter TS program. <b>2006</b> , 142-147		
67	Disc defect classification for optical disc drives. <i>IEEE Transactions on Consumer Electronics</i> , <b>2005</b> , 51, 856-863		8
66	Discussion on: Uniform Parametric Convergence in the Adaptive Control of Mechanical Systems□ <i>European Journal of Control</i> , <b>2005</b> , 11, 101-104	2.5	
65	Modeling the electromechanical interactions in a null-flux electrodynamic maglev system. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 466-470	2	15
64	Mathematical model of the 5-DOF sled dynamics of an electrodynamic maglev system with a passive sled. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 460-465	2	22
63	Integrating experimentation into control courses. <i>IEEE Control Systems</i> , <b>2005</b> , 25, 40-44	2.9	9
62	Learning-based identification and iterative learning control of direct-drive robots. <i>IEEE Transactions on Control Systems Technology</i> , <b>2005</b> , 13, 537-549	4.8	28
61	NONLINEAR CONTROL OF A LINEAR MOTION SYSTEM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 446-451		2
60	UNFALSIFIED CONTROL USING AN ELLIPSOIDAL UNFALSIFIED REGION APPLIED TO A MOTION SYSTEM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 157-162		1
59	DESIGN CONSIDERATIONS FOR ELECTROMECHANICAL ACTUATION IN PRECISION MOTION SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 139-144		3
58	AN EXPERIMENTAL DEMONSTRATION OF NPID CONTROL WITH APPLICATION TO OPTICAL STORAGE DRIVES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 19-24		
57	Design of a machine for the universal non-contact measurement of large free-form optics with 30 nm uncertainty <b>2005</b> ,		1
56	Non-linear feedback control of the ZI powertrain. <i>International Journal of Vehicle Design</i> , <b>2005</b> , 39, 257	2.4	1
55	Large adaptive deformable mirror: design and first prototypes <b>2005</b> ,		2
54	Performance optimisation of the push-belt CVT by variator slip control. <i>International Journal of Vehicle Design</i> , <b>2005</b> , 39, 232	2.4	32
53	Trajectory planning and feedforward design for electromechanical motion systems. <i>Control Engineering Practice</i> , <b>2005</b> , 13, 145-157	3.9	165

52	Nonlinear control of optical storage drives with improved shock performance. <i>Control Engineering Practice</i> , <b>2005</b> , 13, 1295-1305	3.9	14
51	Energy management strategies for vehicular electric power systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2005</b> , 54, 771-782	6.8	284
50	Jerk derivative feedforward control for motion systems <b>2004</b> ,		15
49	Simulation and control of an automotive dry clutch <b>2004</b> ,		16
48	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2004</b> , 12, 904-919	4.8	58
47	A Cost-Effective Scheme to Improve Radial Tracking Performance for Higher-Speed Optical Disk Drives. <i>JVC/Journal of Vibration and Control</i> , <b>2004</b> , 10, 795-810	2	1
46	Anti-shock controller design for optical drives. <i>Control Engineering Practice</i> , <b>2004</b> , 12, 811-817	3.9	7
45	Stability and performance of a variable gain controller with application to a dvd storage drive. <i>Automatica</i> , <b>2004</b> , 40, 591-602	5.7	27
44	Stability parameter identification for a centrifugal compression system <b>2004</b> ,		6
43	On noise- and period-time sensitivity in high order repetitive control <b>2004</b> ,		7
42	Comparison of Standard and Lifted ILC on a Motion System. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2004</b> , 37, 205-210		2
41	Classifying disc defects in optical disc drives by using time-series clustering <b>2004</b> ,		3
40	Analysis of Slip in a Continuously Variable Transmission <b>2003</b> , 995		10
39	Introduction to an integrated design for motion systems using over-actuation <b>2003</b> ,		6
38	Iterative learning control for variable setpoints, applied to a motion system <b>2003</b> ,		2
37	Friction induced hunting limit cycles: A comparison between the LuGre and switch friction model. <i>Automatica</i> , <b>2003</b> , 39, 2131-2137	5.7	69
36	Repetitive control for systems with uncertain period-time. <i>Automatica</i> , <b>2002</b> , 38, 2103-2109	5.7	201
35	Frequency domain identification of dynamic friction model parameters. <i>IEEE Transactions on Control Systems Technology</i> , <b>2002</b> , 10, 191-196	4.8	81



34	Tracking Learning Feedforward Control for High-Speed CD-ROM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 893-898		2
33	Iterative Learning Control of Industrial Motion Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 899-904		7
32	Repetitive Control for Systems with Uncertain Period-Time, with Application to a Compact Disc Drive. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 395-400		
31	Experimental demonstration of reset control design. <i>Control Engineering Practice</i> , <b>2000</b> , 8, 113-120	3.9	84
30	On QFT tuning of multivariable $\mathcal{H}_\infty$ controllers. <i>Automatica</i> , <b>2000</b> , 36, 1701-1708	5.7	9
29	Internal-model-based design of repetitive and iterative learning controllers for linear multivariable systems. <i>International Journal of Control</i> , <b>2000</b> , 73, 914-929	1.5	53
28	Iterative model and controller reduction using closed-loop balancing, with application to a compact disc mechanism. <i>International Journal of Robust and Nonlinear Control</i> , <b>1999</b> , 9, 123-142	3.6	20
27	$\mathcal{H}_\infty$ synthesis for a compact disc player. <i>International Journal of Robust and Nonlinear Control</i> , <b>1998</b> , 8, 169-180	3.0	17
26	Industrial perspective on robust control: Application to storage systems. <i>Annual Reviews in Control</i> , <b>1998</b> , 22, 47-58	10.3	1
25	Advanced Motion Control: An Industrial Perspective. <i>European Journal of Control</i> , <b>1998</b> , 4, 278-293	2.5	85
24	A System Analysis for High- and Very High-Speed CD-ROM Drives. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1998</b> , 31, 225-230		1
23	Feed Forward Control to Enhance CD Skip Performance <b>1998</b> ,		1
22	Industrial Perspective on Robust Control: Application to Storage Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1997</b> , 30, 9-20		
21	. <i>IEEE Transactions on Control Systems Technology</i> , <b>1994</b> , 2, 312-317	4.8	7
20	. <i>IEEE Transactions on Power Electronics</i> , <b>1992</b> , 7, 212-223	7.2	5
19	Adaptive control of the radial servo system of a compact disc player. <i>Automatica</i> , <b>1992</b> , 28, 455-462	5.7	31
18	Uncertainty modelling and structured singular-value computation applied to an electromechanical system. <i>IEE Proceedings D: Control Theory and Applications</i> , <b>1992</b> , 139, 301		51
17	Frequency response based multivariable control design for motion systems		1

16	Optimal design of energy storage systems for hybrid vehicle drivetrains	5
15	Time-frequency analysis of a motion system with learning control	10
14	Model-based feedforward for motion systems	22
13	Haptic feedback designs in teleoperation systems for minimal invasive surgery	5
12		2
11	Data-based optimal control	29
10	Data-based control of motion systems	2
9	The influence of disturbances in iterative learning control	2
8	CVT ratio control strategy optimization	6
7	Closed-form kinematic and dynamic models of an industrial-like RRR robot	1
6		3
5	Estimator-based sliding mode control of an optical disc drive under shock and vibration	3
4	Input design for optimal discrete time point-to-point motion of an industrial XY-positioning table	13
3	Suppressing non-periodically repeating disturbances in mechanical servo systems	4
2	Adaptive repetitive control of a compact disc mechanism	24
1		14