## Maarten Steinbuch

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3098766/publications.pdf

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341 papers

7,730 citations

71102 41 h-index 74163 75 g-index

343 all docs 343 docs citations

times ranked

343

4870 citing authors

#	Article	IF	CITATIONS
1	Motion Control, Mechatronics Design, and Moore's Law. IEEJ Journal of Industry Applications, 2022, 11, 245-255.	1.1	8
2	Revisiting static charge schedules for electric vehicles as temporary solution to low-voltage grid congestion with recent charging and grid data. Sustainable Energy, Grids and Networks, 2022, 31, 100701.	3.9	5
3	A Concept for Accurate Edge-Coupled Multi-Fiber Photonic Interconnects. Journal of Lightwave Technology, 2019, 37, 1374-1380.	4.6	1
4	A representation method based on the probability of collision for safe robot navigation in domestic environments. Autonomous Robots, 2018, 42, 601-614.	4.8	3
5	A task analysis approach to quantify bottlenecks in task completion time of telemanipulated maintenance. Fusion Engineering and Design, 2018, 129, 300-308.	1.9	5
6	Resonant-Dynamics LTV Feedforward for Flexible Motion Systems. , 2018, , .		1
7	A comparative overview of frequency domain methods for nonlinear systems. Mechatronics, 2017, 42, 11-24.	3.3	24
8	Periodic Signal Tracking for Lightly Damped Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, $2017,139,.$	1.6	1
9	Broadband damping of high-precision motion stages. Mechatronics, 2017, 41, 1-16.	3.3	7
10	A compliance feedforward scheme for a class of LTV motion systems. , 2017, , .		2
11	Iterative Learning Control and feedforward for LPV systems: Applied to a position-dependent motion system., 2017,,.		12
12	Review of Optimization Strategies for System-Level Design in Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	143
13	Classical control control for home and arrain multi-value approximation of Intelligent Coming		
	Cloud based centralized task control for human domain multi-robot operations. Intelligent Service Robotics, 2016, 9, 63-77.	2.6	13
14		3.0	3
14 15	Robotics, 2016, 9, 63-77.		
	Robotics, 2016, 9, 63-77.  Modelâ€based geometric calibration for medical xâ€ray systems. Medical Physics, 2015, 42, 6170-6181.		3
15	Robotics, 2016, 9, 63-77.  Modelâ€based geometric calibration for medical xâ€ray systems. Medical Physics, 2015, 42, 6170-6181.  Identification of cyclic disturbances in positioning systems via compressive sensing., 2015, , .  Second-Order Iterative Learning Control for Scaled Setpoints. IEEE Transactions on Control Systems	3.0	3

#	Article	IF	Citations
19	Effect of gear shift and engine start losses on energy management strategies for hybrid electric vehicles. International Journal of Powertrains, 2015, 4, 141.	0.3	6
20	Time-delay pre-filter design for vibration free tracking of periodic reference signals. , 2015, , .		1
21	Nanometre-accurate form measurement machine for E-ELT M1 segments. Precision Engineering, 2015, 40, 14-25.	3.4	7
22	Notch Filters for Port-Hamiltonian Systems. IEEE Transactions on Automatic Control, 2015, 60, 2440-2445.	5.7	2
23	Computation of transfer function data from frequency response data with application to data-based root-locus. Control Engineering Practice, 2015, 37, 20-31.	5.5	3
24	Iterative motion feedforward tuning: A data-driven approach based on instrumental variable identification. Control Engineering Practice, 2015, 37, 11-19.	5.5	79
25	From Optimal to Real-Time Control of a Mechanical Hybrid Powertrain. IEEE Transactions on Control Systems Technology, 2015, 23, 670-678.	5.2	8
26	Robust High Performance Bilateral Teleoperation Under Bounded Time-Varying Dynamics. IEEE Transactions on Control Systems Technology, 2015, 23, 206-218.	5.2	10
27	Linear viscoelastic fluid characterization of ultra-high-viscosity fluids for high-frequency damper design. Rheologica Acta, 2015, 54, 667-677.	2.4	7
28	Implementation of Dynamic Programming for Optimal Control Problems With Continuous States. IEEE Transactions on Control Systems Technology, 2015, 23, 1172-1179.	5.2	23
29	Application of a Time-Delay Pre-Filter Design for Periodic Signal Tracking of Lightly-Damped  Multivariable Systemsâ^—â^—The research leading to these results has received funding from the Dutch  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Iniversity of Technology/Philips  ministry of Economic afairs and is part of the joint Findhaven I Ini	0.9	1
30	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"	5.5	3
31	xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x xmlns:ce="http://www.elsevier.com/x Semi-task-dependent and uncertainty-driven world model maintenance. Autonomous Robots, 2015, 38, 1-15.	4.8	1
32	Model predictive control of a waste heat recovery system for automotive diesel engines. , 2014, , .		14
33	Modeling and Control of a Parallel Waste Heat Recovery System for Euro-VI Heavy-Duty Diesel Engines. Energies, 2014, 7, 6571-6592.	3.1	58
34	Semi-empirical power dissipation modelling of mechanical hybrid powertrain components. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014, 228, 443-456.	1.9	3
35	Aspects in inferential Iterative Learning Control: A 2D systems analysis. , 2014, , .		2
36	Design of an E-ELT M1 segment measurement machine with nanometer accuracy. , 2014, , .		0

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37	Extremum seeking control with data-based disturbance feedforward. , 2014, , .		5
38	Accuracy aspects in motion feedforward tuning. , 2014, , .		17
39	Connecting System Identification and Robust Control for Next-Generation Motion Control of a Wafer Stage. IEEE Transactions on Control Systems Technology, 2014, 22, 102-118.	5.2	123
40	Using iterative learning control with basis functions to compensate medium deformation in a wide-format inkjet printer. Mechatronics, 2014, 24, 944-953.	3.3	59
41	On inferential Iterative Learning Control: With example to a printing system. , 2014, , .		8
42	Exploiting additional actuators and sensors for nano-positioning robust motion control. , 2014, , .		10
43	High performance teleoperation by bumpless transfer of robust controllers. , 2014, , .		2
44	Gear shift map design methodology for automotive transmissions. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014, 228, 50-72.	1.9	25
45	Fast and smooth clutch engagement control for dual-clutch transmissions. Control Engineering Practice, 2014, 22, 57-68.	5.5	59
46	Optimal Control of a Mechanical Hybrid Powertrain With Cold-Start Conditions. IEEE Transactions on Vehicular Technology, 2014, 63, 1555-1566.	6.3	16
47	Solution for state constrained optimal control problems applied to power split control for hybrid vehicles. Automatica, 2014, 50, 187-192.	5.0	68
48	Topology and Flywheel Size Optimization for Mechanical Hybrid Powertrains. IEEE Transactions on Vehicular Technology, 2014, 63, 4192-4205.	6.3	23
49	Gain Scheduling Control of a Walking Piezo Actuator. IEEE/ASME Transactions on Mechatronics, 2014, 19, 954-962.	5.8	18
50	Fast and Smooth Clutch Engagement Control for a Mechanical Hybrid Powertrain. IEEE Transactions on Control Systems Technology, 2014, 22, 1241-1254.	5,2	38
51	Data-based spatial feedforward for over-actuated motion systems. Mechatronics, 2014, 24, 679-690.	3.3	3
52	A dynamic state observer for real-time reconstruction of the tokamak plasma profile state and disturbances. , 2014, , .		12
53	Two-phase plate-fin heat exchanger modeling for waste heat recovery systems in diesel engines. Applied Energy, 2014, 133, 183-196.	10.1	49
54	Optimally conditioned instrumental variable approach for frequency-domain system identification. Automatica, 2014, 50, 2281-2293.	5.0	30

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55	Real-time optical plasma boundary reconstruction for plasma position control at the TCV Tokamak. Nuclear Fusion, 2014, 54, 073018.	3.5	21
56	Frequency domain based real-time performance optimization of Lur'e systems. Mechanical Systems and Signal Processing, 2014, 42, 58-70.	8.0	5
57	Exploiting additional actuators and sensors for nano-positioning robust motion control. Mechatronics, 2014, 24, 619-631.	3.3	34
58	Learning intentions for improved human motion prediction. Robotics and Autonomous Systems, 2014, 62, 591-602.	5.1	44
59	Directional notch filters for motion control of flexible structures. Mechatronics, 2014, 24, 632-639.	3.3	14
60	Model-based spatial feedforward for over-actuated motion systems. Mechatronics, 2014, 24, 307-317.	3.3	26
61	Task analysis of human-in-the-loop tele-operated maintenance: What can be learned from JET?. Fusion Engineering and Design, 2014, 89, 2283-2288.	1.9	6
62	Combining extremum seeking control and tracking control for high-performance CVT operation. Control Engineering Practice, 2014, 29, 86-102.	5.5	8
63	Planar feature-based motion control for near-repetitive structures. Control Engineering Practice, 2014, 29, 123-134.	5.5	0
64	Extremum Seeking Control With Adaptive Disturbance Feedforward. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 383-388.	0.4	5
65	On numerically reliable frequency-domain system identification: new connections and a comparison of methods. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10018-10023.	0.4	4
66	A representation method based on the probability of collision for safe robot navigation in domestic environments. , 2014, , .		8
67	Comparison of Bi-Level Optimization Frameworks for Sizing and Control of a Hybrid Electric Vehicle. , 2014, , .		27
68	Topology Optimization of Hybrid Power Trains. Lecture Notes in Control and Information Sciences, 2014, , 181-198.	1.0	3
69	Active Object Search Exploiting Probabilistic Object–Object Relations. Lecture Notes in Computer Science, 2014, , 13-24.	1.3	7
70	Sharing Open Hardware through ROP, the Robotic Open Platform. Lecture Notes in Computer Science, 2014, , 584-591.	1.3	5
71	Switching Robust Control Synthesis for Teleoperation via Dwell Time Conditions. Lecture Notes in Computer Science, 2014, , 158-166.	1.3	0
72	Analysis of human-in-the-loop tele-operated maintenance inspection tasks using VR. Fusion Engineering and Design, 2013, 88, 2164-2167.	1.9	18

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73	Optimal gear shift strategies for fuel economy and driveability. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2013, 227, 1398-1413.	1.9	58
74	Design and control of high tech systems. , 2013, , .		7
75	Model-based approach to minimize system calibrations for 3D reconstruction quality of a cone-beam CT system. , $2013,  \ldots$		3
76	Semantic world modeling using probabilistic multiple hypothesis anchoring. Robotics and Autonomous Systems, 2013, 61, 95-105.	5.1	44
77	Optimal higher-order encoder time-stamping. Mechatronics, 2013, 23, 481-490.	3.3	65
78	Deformable mirrors with thermo-mechanical actuators for extreme ultraviolet lithography: Design, realization and validation. Precision Engineering, 2013, 37, 353-363.	3.4	18
79	Learning intentions for improved human motion prediction. , 2013, , .		2
80	A fast, magnetics-free flux surface estimation and <i>q</i> -profile reconstruction algorithm for feedback control of plasma profiles. Plasma Physics and Controlled Fusion, 2013, 55, 025007.	2.1	6
81	Frequency domainâ€based nonlinearity detection and compensation in Lur'e systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1168-1182.	3.7	14
82	Minimizing the number of iterations when computing a base pose for manipulation by mobile base inclusion in the inverse kinematics. , $2013$ , , .		2
83	Frequency-domain mapping approach of stability bounds for loop shaping of bilateral controllers. , 2013, , .		O
84	Heat exchanger modeling and identification for control of Waste Heat Recovery systems in diesel engines. , $2013, \dots$		9
85	Exploiting rational basis functions in iterative learning control., 2013,,.		4
86	Integrating planning and execution for ROS enabled service robots using hierarchical action representations. , $2013$ , , .		4
87	Feedforward for flexible systems with time-varying performance locations. , 2013, , .		6
88	Switching Robust Control for Transparent and Stable Teleoperation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 530-536.	0.4	1
89	Experimental Validation of a Dynamic Waste Heat Recovery System Model for Control Purposes., 2013,		15
90	Robust adaptive control of the sawtooth instability in nuclear fusion. , 2012, , .		0

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91	A new Robust Delay-Variable Repetitive Controller with application to media transport in a printer. , 2012, , .		0
92	Extending Energy Management in Hybrid Electric Vehicles with explicit control of gear shifting and start-stop. , $2012$ , , .		15
93	Sawtooth period control strategies and designs for improved performance. Nuclear Fusion, 2012, 52, 074005.	3.5	10
94	Model-based feedforward for inferential motion systems, with application to a prototype lightweight motion system. , 2012, , .		5
95	Robust performance control design for bilateral teleoperation under time-varying bounded operator and environment dynamics. , 2012, , .		2
96	Real-time period determination for relaxation oscillators using wavelets. , 2012, , .		0
97	Systematic design and simulation of a tearing mode suppression feedback control system for the TEXTOR tokamak. Nuclear Fusion, 2012, 52, 074009.	3.5	6
98	New Connections Between Frequency Response Functions for a Class of Nonlinear Systems*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 280-285.	0.4	0
99	Review of Optimal Design Strategies for Hybrid Electric Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 57-64.	0.4	29
100	Analysis of optimal mechanical-hybrid powertrain topologies. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 41-48.	0.4	4
101	High Performance and Stable Teleoperation under Bounded Operator and Environment Dynamics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 373-379.	0.4	13
102	Performance simulations of a low-cost hybrid powertrain with large fuel savings. International Journal of Powertrains, 2012, 1, 377.	0.3	3
103	Uniquely connecting frequency domain representations of given order polynomial Wiener–Hammerstein systems. Automatica, 2012, 48, 2381-2384.	5.0	7
104	High Speed Visual Motion Control Applied to Products With Repetitive Structures. IEEE Transactions on Control Systems Technology, 2012, 20, 1450-1460.	5.2	8
105	Iterative learning control with basis functions for media positioning in scanning inkjet printers. , 2012, , .		12
106	Improving Continuously Variable Transmission Efficiency With Extremum Seeking Control. IEEE Transactions on Control Systems Technology, 2012, 20, 1376-1383.	5.2	18
107	Optimal Control of the Gearshift Command for Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2012, 61, 3531-3543.	6.3	104
108	Robust sawtooth period control based on adaptive online optimization. Nuclear Fusion, 2012, 52, 074006.	3.5	6

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109	A new mechanism for sawtooth period control. EPJ Web of Conferences, 2012, 32, 02008.	0.3	0
110	Design, implementation, and experimental validation of optimal power split control for hybrid electric trucks. Control Engineering Practice, 2012, 20, 547-558.	5.5	43
111	Linear control of time-domain constrained systems. Automatica, 2012, 48, 736-746.	5.0	6
112	Frequency domain based nonlinear feed forward control design for friction compensation. Mechanical Systems and Signal Processing, 2012, 27, 551-562.	8.0	44
113	Optimal Control of a Mechanical Hybrid Powertrain. IEEE Transactions on Vehicular Technology, 2012, 61, 485-497.	6.3	51
114	Frequency domain based friction compensation - Industrial application to transmission electron microscopes , $2011,  \ldots$		5
115	Two level world modeling for cooperating robots using a multiple hypotheses filter. , 2011, , .		6
116	Systematic design of a sawtooth period feedback controller using a Kadomtsev–Porcelli sawtooth model. Nuclear Fusion, 2011, 51, 073024.	3.5	16
117	Control of sawteeth and neo-classical tearing modes in tokamaks using electron cyclotron waves. , $2011, \ldots$		0
118	Hierarchical control for drift correction in transmission electron microscopes. , 2011, , .		4
119	ITER Upper Port Plug handling cask system assessment and design proposals. Fusion Engineering and Design, 2011, 86, 1937-1940.	1.9	3
120	Real-time wavelet detection of crashes in limit cycles of non-stationary fusion plasmas. Fusion Engineering and Design, 2011, 86, 2908-2919.	1.9	9
121	Predictive gear shift control for a parallel Hybrid Electric Vehicle. , 2011, , .		24
122	Spectral Analysis of Block Structured Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4416-4421.	0.4	0
123	Optimal Trajectories for Vehicles with Energy Recovery Options*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3831-3836.	0.4	16
124	Analysis of modelling and simulation methodologies for vehicular propulsion systems. International Journal of Powertrains, 2011, 1, 117.	0.3	5
125	Model-Based Drift Control for Electron Microscopes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8583-8588.	0.4	4
126	Modeling and Waveform Optimization of a Nano-motion Piezo Stage. IEEE/ASME Transactions on Mechatronics, 2011, 16, 615-626.	5.8	54

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127	Delay-varying repetitive control with application to a walking piezo actuator. Automatica, 2011, 47, 1737-1743.	5.0	28
128	Spectral analysis of block structured nonlinear systems and higher order sinusoidal input describing functions. Automatica, 2011, 47, 2684-2688.	5.0	30
129	The NANOMEFOS non-contact measurement machine for freeform optics. Precision Engineering, 2011, 35, 607-624.	3.4	70
130	A novel ball handling mechanism for the RoboCup middle size league. Mechatronics, 2011, 21, 469-478.	3.3	19
131	Directional Repetitive Control of a Metrological AFM. IEEE Transactions on Control Systems Technology, 2011, 19, 1622-1629.	5.2	10
132	Belt-pulley friction estimation for the Continuously Variable Transmission. , 2011, , .		6
133	Numerical demonstration of injection locking of the sawtooth period by means of modulated EC current drive. Nuclear Fusion, 2011, 51, 103043.	3.5	10
134	A Validated Modular Model for Hydraulic Actuation in a Pushbelt Continuously Variable Transmission. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	1.6	2
135	Control-oriented modeling of the Electron Cyclotron Current Drive actuated hybrid mode in ITER. , $2011,\ ,\ .$		1
136	Optimal energy management for a flywheel-based hybrid vehicle. , 2011, , .		1
137	Comparison of EGR-VTG Control Schemes for an EPA2010 Heavy-Duty Diesel Engine. , 2011, , .		0
138	CONTROL ORIENTED ANALYSIS AND FEEDBACK CONTROL OF A SAWTOOTH INSTABILITY MODEL. , 2011, , .		0
139	An Enhanced CMM Model for the Accurate Prediction of Steady-State Performance of CVT Chain Drives. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	23
140	ENERGY MANAGEMENT IN HYBRID ELECTRIC VEHICLES: BENEFIT OF PREDICTION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 264-269.	0.4	16
141	Implementation of an Optimal Control Energy Management Strategy in a Hybrid Truck. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 61-66.	0.4	8
142	Directional Repetitive Control of a Metrological AFM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 206-211.	0.4	2
143	Velocity and acceleration estimation for optical incremental encoders. Mechatronics, 2010, 20, 20-26.	3.3	84
144	Rejection of fixed direction disturbances in multivariable electromechanical motion systems. Mechatronics, 2010, 20, 45-52.	3.3	2

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145	String-Stable CACC Design and Experimental Validation: A Frequency-Domain Approach. IEEE Transactions on Vehicular Technology, 2010, 59, 4268-4279.	6.3	688
146	Modeling of a walking piezo actuator. Sensors and Actuators A: Physical, 2010, 162, 51-60.	4.1	28
147	Design of a long stroke translation stage for AFM. International Journal of Machine Tools and Manufacture, 2010, 50, 183-190.	13.4	40
148	MIMO feed-forward design in wafer scanners using a gradient approximation-based algorithm. Control Engineering Practice, 2010, 18, 495-506.	5.5	92
149	Design and implementation of parameterized adaptive cruise control: An explicit model predictive control approach. Control Engineering Practice, 2010, 18, 882-892.	5.5	100
150	Performance analysis of reset control systems. International Journal of Robust and Nonlinear Control, 2010, 20, 1213-1233.	3.7	98
151	Optimal Energy Management in Hybrid Electric Trucks Using Route Information. Oil and Gas Science and Technology, 2010, 65, 103-113.	1.4	39
152	Combining extremum seeking control and tracking control for high-performance CVT operation. , 2010, , .		4
153	A robust-control-relevant model validation approach for continuously variable transmission control. , 2010, , .		5
154	Velocity trajectory optimization in Hybrid Electric trucks. , 2010, , .		50
155	Second-order odd-harmonic repetitive control and its application to active filter control. , 2010, , .		10
156	Closed loop control of the sawtooth instability in nuclear fusion. , 2010, , .		0
157	Reference governors for controlled belt restraint systems. Vehicle System Dynamics, 2010, 48, 831-850.	3.7	7
158	Nonlinearities in Industrial motion stages - detection and classification. , 2010, , .		9
159	Frequency response data based optimal control using the data based symmetric root locus. , 2010, , .		6
160	Non-iterative data-driven controller tuning with guaranteed stability: Application to direct-drive pick-and-place robot. , $2010$ , , .		8
161	Robust control of a clutch system to prevent judder-induced driveline oscillations. Vehicle System Dynamics, 2010, 48, 1379-1394.	3.7	27
162	Optical boundary reconstruction of tokamak plasmas for feedback control of plasma position and shape. Review of Scientific Instruments, 2010, 81, 113504.	1.3	34

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163	A Model Predictive Control Approach to Design a Parameterized Adaptive Cruise Control. Lecture Notes in Control and Information Sciences, 2010, , 273-284.	1.0	10
164	Improvement of fuel economy in Power-Shift Automated Manual Transmission through shift strategy optimization - an experimental study. , 2010, , .		22
165	Real-time control of tearing modes using a line-of-sight electron cyclotron emission diagnostic. Plasma Physics and Controlled Fusion, 2010, 52, 104006.	2.1	40
166	The design of a semi-automated football table. , 2010, , .		4
167	Cooperative adaptive cruise control, design and experiments. , 2010, , .		83
168	New educational demands for the future: Automotive Technology - Master of Science. , 2010, , .		0
169	Control Relevant Blind Identification of Disturbances With Application to a Multivariable Active Vibration Isolation Platform. IEEE Transactions on Control Systems Technology, 2010, 18, 393-404.	5.2	9
170	Advanced Motion Control Design. The Electrical Engineering Handbook, 2010, , 27-1-27-25.	0.2	12
171	A Haptic Gearshift Interface for Cars. Lecture Notes in Computer Science, 2010, , 315-320.	1.3	1
172	An analogy between the Van der Pol equation and the Greitzer model. , 2009, , .		0
173	Control oriented modeling and simulation of the sawtooth instability in nuclear fusion tokamak plasmas. , 2009, , .		1
174	Model-free norm-based fixed structure controller synthesis. , 2009, , .		9
175	Dynamic decoupling in motion systems using a gradient approximation-based algorithm. , 2009, , .		3
176	Reading of cracked optical discs using Iterative Learning Control., 2009,,.		1
177	LPV control of an active vibration isolation system. , 2009, , .		0
178	Direct dynamic visual servoing at 1 kHz by using the product as 1.5D encoder. , 2009, , .		3
179	ECE system on ASDEX-upgrade placed inline at the high power waveguide based transmission system. , 2009, , .		4
180	Improving pushbelt continuously variable transmission efficiency via extremum seeking control. , 2009, , .		5

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181	Modeling and compensation of asymmetric hysteresis in a piezo actuated metrological AFM., 2009,,.		7
182	Linear control of time-domain constrained systems. , 2009, , .		1
183	Deformable mirrors: design fundamentals for force actuation of continuous facesheets. , 2009, , .		7
184	Design of CVT-Based Hybrid Passenger Cars. IEEE Transactions on Vehicular Technology, 2009, 58, 572-587.	6.3	36
185	Energy buffered carriage reversal for wide format printing systems. Mechatronics, 2009, 19, 735-747.	3.3	1
186	A closed-loop control system for stabilization of MHD events on TEXTOR. Fusion Engineering and Design, 2009, 84, 928-934.	1.9	16
187	Identification, control and hysteresis compensation of a 3 DOF metrological AFM. Asian Journal of Control, 2009, 11, 130-143.	3.0	49
188	Control-oriented modelling of occupants in frontal impacts. International Journal of Crashworthiness, 2009, 14, 323-337.	1.9	15
189	Repetitive control applied to a walking piezo actuator. , 2009, , .		5
190	Nanometer level freeform surface measurements with the NANOMEFOS non-contact measurement machine. , 2009, , .		6
191	Design of a minimally invasive surgical teleoperated master-slave system with haptic feedback. , 2009, , .		26
192	Modeling of a walking piezo actuator., 2009,,.		5
193	Time-domain performance based non-linear state feedback control of constrained linear systems. International Journal of Control, 2009, 82, 352-364.	1.9	4
194	Using a Walking Piezo Actuator to Drive and Control a High-Precision Stage. IEEE/ASME Transactions on Mechatronics, 2009, 14, 21-31.	5.8	79
195	Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. Lecture Notes in Computer Science, 2009, , 150-164.	1.3	41
196	Improving Maneuverability and Tactile Feedback in Medical Catheters by Optimizing the Valve Toward Minimal Friction. Journal of Medical Devices, Transactions of the ASME, 2009, 3, .	0.7	1
197	Recovering Data from Cracked Optical Discs using Hankel Iterative Learning Control. , 2009, , 147-166.		1
198	Multivariable control of a metrological Atomic Force Microscope. , 2009, , .		0

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199	Iterative learning control with wavelet filtering. International Journal of Robust and Nonlinear Control, 2008, 18, 1052-1071.	3.7	17
200	Experimental characterization of the stick/sliding transition in a precision mechanical system using the third order sinusoidal input describing function. Mechatronics, 2008, 18, 100-110.	3.3	11
201	Measuring the higher order sinusoidal input describing functions of a non-linear plant operating in feedback. Control Engineering Practice, 2008, 16, 101-113.	5.5	19
202	Robust control of piecewise linear systems: A case study in sheet flow control. Control Engineering Practice, 2008, 16, 991-1003.	5.5	21
203	Data-driven multivariable controller design using Ellipsoidal Unfalsified Control. Systems and Control Letters, 2008, 57, 759-762.	2.3	28
204	Adaptive Iterative Learning Control for High Precision Motion Systems. IEEE Transactions on Control Systems Technology, 2008, 16, 1075-1082.	5.2	72
205	Reference governors for controlled belt restraint systems. , 2008, , .		3
206	Data-Driven Controller Unfalsification With Analytic Update Applied to a Motion System. IEEE Transactions on Control Systems Technology, 2008, 16, 1207-1217.	5.2	9
207	Explicit MPC design and performance-based tuning of an Adaptive Cruise Control Stop-&-Go. , 2008, , .		15
208	An LMI-based L&Itinf>2&It/inf> gain performance analysis for reset control systems. , 2008, , .		3
209	Bias Removal in Higher Order Sinusoidal Input Describing Functions. , 2008, , .		1
210	Circle criterion in linear control design. , 2008, , .		5
211	Validation of a new adaptive deformable mirror concept. , 2008, , .		11
212	Modeling, identification and control of a metrological Atomic Force Microscope with a 3DOF stage. , 2008, , .		3
213	Norm optimal Cross-Coupled Iterative Learning Control. , 2008, , .		22
214	Stability and causality constraints on frequency response coefficients applied for non-parametric H <sub>2</sub> and H <sub>∞</sub> control synthesis., 2008,,.		4
215	Tracking control for piecewise linear systems using an error space approach: A case-study in sheet control., 2008,,.		1
216	Continuous impulsive force controller for Forbidden-Region Virtual Fixtures. , 2008, , .		6

#	Article	IF	Citations
217	Explicit MPC design and performance evaluation of an ACC Stop-& amp; #x00026; -Go. , 2008, , .		35
218	Velocity and Acceleration Estimation for Optical Incremental Encoders. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 7570-7575.	0.4	5
219	Hybrid component specification optimisation for a medium-duty hybrid electric truck. International Journal of Heavy Vehicle Systems, 2008, 15, 356.	0.2	14
220	The Empact CVT: modelling, simulation and experiments. International Journal of Modelling, Identification and Control, 2008, 3, 286.	0.2	5
221	An Adaptive Sub-Optimal Energy Management Strategy for Hybrid Drive-Trains. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 102-107.	0.4	12
222	Rejection of fixed direction disturbances in multivariable electromechanical motion systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 176-181.	0.4	0
223	Rule-Based Equivalent Fuel Consumption Minimization Strategies for Hybrid Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 5652-5657.	0.4	23
224	Frequency domain approach for the design of heavy-duty vehicle speed controllers. International Journal of Heavy Vehicle Systems, 2008, 15, 107.	0.2	2
225	Mechatronic Design of an Efficient Drive for Wide Format Printing Systems. , 2007, , .		0
226	Active printhead alignment for Wide Format Printing Systems., 2007,,.		0
227	Cogging Compensating Piecewise Iterative Learning Control with application to a motion system. Proceedings of the American Control Conference, 2007, , .	0.0	5
228	Data-driven multivariable controller design using Ellipsoidal Unfalsified Control. Proceedings of the American Control Conference, 2007, , .	0.0	6
229	Piecewise linear sheet control in an H <sub>∞</sub> framework., 2007,,.		0
230	Multivariable control design for fixed direction disturbances. Proceedings of the American Control Conference, 2007, , .	0.0	3
231	State Estimator Design for Real-time Controlled Restraint Systems. Proceedings of the American Control Conference, 2007, , .	0.0	4
232	H <inf>2</inf> performance analysis of reset control systems., 2007,,.		6
233	Time-frequency analysis of position-dependent dynamics in a Motion System with ILC. Proceedings of the American Control Conference, 2007, , .	0.0	4
234	Rule-based energy management strategies for hybrid vehicles. International Journal of Electric and Hybrid Vehicles, 2007, $1,71$ .	0.3	189

#	Article	IF	CITATIONS
235	Time domain performance based nonlinear state feedback control of constrained linear systems. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	1
236	Control of a high precision stage using a walking piezo actuator. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	6
237	A high-speed valve for surge control in a centrifugal compression system. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	0
238	Blind identification and allocation of multivariate disturbances. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	1
239	Haptic manipulation of virtual linkages with kinematic loops. , 2007, , .		1
240	Parametric Modeling of Components for Selection and Specification of Hybrid Vehicle Drivetrains. World Electric Vehicle Journal, 2007, 1, 215-224.	3.0	5
241	Design of noise and period-time robust high-order repetitive control, with application to optical storage. Automatica, 2007, 43, 2086-2095.	5.0	155
242	Direct data-driven recursive controller unfalsification with analytic update. Automatica, 2007, 43, 2034-2046.	5.0	45
243	Mechatronic design of an active printhead alignment mechanism for wide format printing systems. Mechatronics, 2007, 17, 109-120.	3.3	3
244	Error modeling and improved position estimation for optical incremental encoders by means of time stamping. Proceedings of the American Control Conference, 2007, , .	0.0	18
245	Plasma needle for <b><i>i&gt;in vivo</i></b> medical treatment: recent developments and perspectives. Plasma Sources Science and Technology, 2006, 15, S169-S180.	3.1	283
246	Optimization aided loop shaping for motion systems. , 2006, , .		9
247	Modeling for simulation of hybrid drivetrain components. , 2006, , .		3
248	A piecewise linear approach towards sheet control in a printer paper path., 2006,,.		6
249	Control of a hydraulically actuated continuously variable transmission. Vehicle System Dynamics, 2006, 44, 387-406.	3.7	35
250	ROBUST PIECEWISE LINEAR SHEET CONTROL IN A PRINTER PAPER PATH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 142-147.	0.4	2
251	Feedback control of occupant motion during a crash. International Journal of Crashworthiness, 2006, 11, 81-96.	1.9	10
252	RULE-BASED ENERGY MANAGEMENT STRATEGIES FOR HYBRID VEHICLE DRIVETRAINS: A FUNDAMENTAL APPROACH IN REDUCING COMPUTATION TIME. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 740-745.	0.4	23

#	Article	IF	CITATIONS
253	Distributed control in adaptive optics: deformable mirror and turbulence modeling. , 2006, , .		9
254	Actuator tests for a large deformable membrane mirror., 2006, 6272, 704.		1
255	Higher-order sinusoidal input describing functions for the analysis of non-linear systems with harmonic responses. Mechanical Systems and Signal Processing, 2006, 20, 1883-1904.	8.0	79
256	Real-time Control of the 3-DOF Sled Dynamics of a Null-Flux Maglev System with a Passive Sled. , 2006, , .		3
257	Identification and control of a vehicle restraint system. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 401-413.	1.9	2
258	Sufficient Conditions for Data-driven Stability of Ellipsoidal Unfalsified Control., 2006,,.		1
259	Performance of variable-gain controlled optical storage drives. , 2006, , .		5
260	Ellipsoidal unfalsified control: stability. , 2006, , .		3
261	Modelling and LPV control of an electro-hydraulic servo system. , 2006, , .		10
262	Design of a printhead alignment sensor for a temperature varying environment., 2006,,.		2
263	Development of a smart positioning sensor for the plasma needle. Plasma Sources Science and Technology, 2006, 15, 582-589.	3.1	13
264	Optimization aided Loop Shaping for Motion Systems. , 2006, , .		2
265	Modelling and LPV control of an electro-hydraulic servo system. , 2006, , .		13
266	Robust Piecewise Linear Sheet Control in a Printer Paper Path11This 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 , 2006, , 142-147.		0
267	NONLINEAR CONTROL OF A LINEAR MOTION SYSTEM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 446-451.	0.4	8
268	UNFALSIFIED CONTROL USING AN ELLIPSOIDAL UNFALSIFIED REGION APPLIED TO A MOTION SYSTEM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 157-162.	0.4	4
269	DESIGN CONSIDERATIONS FOR ELECTROMECHANICAL ACTUATION IN PRECISION MOTION SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 139-144.	0.4	3
270	AN EXPERIMENTAL DEMONSTRATION OF NPID CONTROL WITH APPLICATION TO OPTICAL STORAGE DRIVES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 19-24.	0.4	0

#	Article	IF	Citations
271	Design of a machine for the universal non-contact measurement of large free-form optics with 30 nm uncertainty., 2005,,.		2
272	Large adaptive deformable membrane mirror with high actuator density: design and first prototypes. , 2005, , .		1
273	Non-linear feedback control of the ZI powertrain. International Journal of Vehicle Design, 2005, 39, 257.	0.3	1
274	Large adaptive deformable mirror: design and first prototypes. , 2005, , .		4
275	Performance optimisation of the push-belt CVT by variator slip control. International Journal of Vehicle Design, 2005, 39, 232.	0.3	41
276	Trajectory planning and feedforward design for electromechanical motion systems. Control Engineering Practice, 2005, 13, 145-157.	5.5	252
277	Nonlinear control of optical storage drives with improved shock performance. Control Engineering Practice, 2005, 13, 1295-1305.	5.5	14
278	Energy Management Strategies for Vehicular Electric Power Systems. IEEE Transactions on Vehicular Technology, 2005, 54, 771-782.	6.3	360
279	Disc defect classification for optical disc drives. IEEE Transactions on Consumer Electronics, 2005, 51, 856-863.	3.6	8
280	Discussion on: "Uniform Parametric Convergence in the Adaptive Control of Mechanical Systems― European Journal of Control, 2005, 11, 101-104.	2.6	0
281	Modeling the electromechanical interactions in a null-flux electrodynamic maglev system. IEEE Transactions on Magnetics, 2005, 41, 466-470.	2.1	19
282	Mathematical model of the 5-DOF sled dynamics of an electrodynamic maglev system with a passive sled. IEEE Transactions on Magnetics, 2005, 41, 460-465.	2.1	25
283	Integrating experimentation into control courses. IEEE Control Systems, 2005, 25, 40-44.	0.8	18
284	Learning-based identification and iterative learning control of direct-drive robots. IEEE Transactions on Control Systems Technology, 2005, 13, 537-549.	5.2	38
285	Discussion on: Uniform Parametric Convergence in the Adaptive Control of Mechanical Systems. European Journal of Control, 2005, 11, 101-111.	2.6	0
286	Jerk derivative feedforward control for motion systems. , 2004, , .		32
287	Simulation and control of an automotive dry clutch. , 2004, , .		35
288	Modeling and Identification for High-Performance Robot Control: An RRR-Robotic Arm Case Study. IEEE Transactions on Control Systems Technology, 2004, 12, 904-919.	5.2	83

#	Article	IF	Citations
289	A Cost-Effective Scheme to Improve Radial Tracking Performance for Higher-Speed Optical Disk Drives. JVC/Journal of Vibration and Control, 2004, 10, 795-810.	2.6	1
290	Anti-shock controller design for optical drives. Control Engineering Practice, 2004, 12, 811-817.	5.5	8
291	Stability and performance of a variable gain controller with application to a dvd storage drive. Automatica, 2004, 40, 591-602.	5.0	32
292	Stability parameter identification for a centrifugal compression system. , 2004, , .		10
293	On noise- and period-time sensitivity in high order repetitive control. , 2004, , .		11
294	Comparison of Standard and Lifted ILC on a Motion System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 205-210.	0.4	6
295	Integrating experiments in control education. , 2004, , .		2
296	Classifying disc defects in optical disc drives by using time-series clustering. , 2004, , .		3
297	Data-based design of high-performance motion controllers. , 2004, , .		1
298	Friction induced hunting limit cycles: A comparison between the LuGre and switch friction model. Automatica, 2003, 39, 2131-2137.	5.0	83
299	Analysis of Slip in a Continuously Variable Transmission. , 2003, , 995.		16
300	Introduction to an integrated design for motion systems using over-actuation., 2003,,.		8
301	Frequency domain iterative learning control for direct-drive robots. , 2003, , .		0
302	Iterative learning control for variable setpoints, applied to a motion system., 2003,,.		6
303	Frequency domain identification of dynamic friction model parameters. IEEE Transactions on Control Systems Technology, 2002, 10, 191-196.	5.2	109
304	Repetitive control for systems with uncertain period-time. Automatica, 2002, 38, 2103-2109.	5.0	267
305	Tracking Learning Feedforward Control for High-Speed CD-ROM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 893-898.	0.4	4
306	Iterative Learning Control of Industrial Motion Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 899-904.	0.4	24

#	Article	IF	Citations
307	Repetitive Control for Systems with Uncertain Period-Time, with Application to a Compact Disc Drive. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 395-400.	0.4	0
308	Experimental demonstration of reset control design. Control Engineering Practice, 2000, 8, 113-120.	<b>5.</b> 5	104
309	On QFT tuning of multivariable $\hat{l}\frac{1}{4}$ controllers. Automatica, 2000, 36, 1701-1708.	5.0	13
310	SIDO controller design for a high performance optical drive. , 2000, , .		3
311	Internal-model-based design of repetitive and iterative learning controllers for linear multivariable systems. International Journal of Control, 2000, 73, 914-929.	1.9	66
312	Iterative model and controller reduction using closed-loop balancing, with application to a compact disc mechanism. International Journal of Robust and Nonlinear Control, 1999, 9, 123-142.	3.7	25
313	$\hat{l}^{1}\!\!/\!\!4$ -synthesis for a compact disc player. International Journal of Robust and Nonlinear Control, 1998, 8, 169-189.	3.7	24
314	Industrial perspective on robust control: Application to storage systems. Annual Reviews in Control, 1998, 22, 47-58.	7.9	3
315	Advanced Motion Control: An Industrial Perspective. European Journal of Control, 1998, 4, 278-293.	2.6	109
316	A System Analysis for High- and Very High-Speed CD-ROM Drives. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 225-230.	0.4	2
317	Feed Forward Control to Enhance CD Skip Performance. , 1998, , .		2
318	Industrial Perspective on Robust Control: Application to Storage Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 9-20.	0.4	0
319	Closed-loop scaling in fixed-point digital control. IEEE Transactions on Control Systems Technology, 1994, 2, 312-317.	5.2	14
320	Dynamic modeling of a generator/rectifier system. IEEE Transactions on Power Electronics, 1992, 7, 212-223.	7.9	7
321	Adaptive control of the radial servo system of a compact disc player. Automatica, 1992, 28, 455-462.	5.0	39
322	Uncertainty modelling and structured singular-value computation applied to an electromechanical system. IEE Proceedings D: Control Theory and Applications, 1992, 139, 301.	0.4	62
323	Robust control of a compact disc player. , 0, , .		34
324	Adaptive repetitive control of a compact disc mechanism. , 0, , .		42

#	Article	IF	CITATIONS
325	Suppressing non-periodically repeating disturbances in mechanical servo systems. , 0, , .		7
326	Input design for optimal discrete time point-to-point motion of an industrial XY-positioning table. , 0, , .		26
327	Modeling and identification of an RRR-robot. , 0, , .		9
328	Closed-form kinematic and dynamic models of an industrial-like RRR robot., 0,,.		8
329	Experimentally supported control design for a direct drive robot. , 0, , .		7
330	Estimator-based sliding mode control of an optical disc drive under shock and vibration. , 0, , .		4
331	Control design for robust performance of a direct-drive robot. , 0, , .		4
332	Time-frequency analysis of a motion system with learning control., 0,,.		17
333	Model-based feedforward for motion systems. , 0, , .		42
334	Identification of non-linear dynamics using higher order frequency response functions. , 0, , .		0
335	Haptic feedback designs in teleoperation systems for minimal invasive surgery. , 0, , .		7
336	Data-based optimal control., 0,,.		41
337	Data-based control of motion systems. , 0, , .		4
338	The influence of disturbances in iterative learning control. , 0, , .		6
339	CVT ratio control strategy optimization. , 0, , .		9
340	Frequency response based multivariable control design for motion systems. , 0, , .		2
341	Optimal design of energy storage systems for hybrid vehicle drivetrains. , 0, , .		8