

# Maarten Steinbuch

## List of Publications by Year in descending order

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341  
papers

7,730  
citations

70961

41  
h-index

74018

75  
g-index

343  
all docs

343  
docs citations

343  
times ranked

4870  
citing authors

#	ARTICLE	IF	CITATIONS
1	String-Stable CACC Design and Experimental Validation: A Frequency-Domain Approach. IEEE Transactions on Vehicular Technology, 2010, 59, 4268-4279.	3.9	688
2	Energy Management Strategies for Vehicular Electric Power Systems. IEEE Transactions on Vehicular Technology, 2005, 54, 771-782.	3.9	360
3	Plasma needle for in vivo medical treatment: recent developments and perspectives. Plasma Sources Science and Technology, 2006, 15, S169-S180.	1.3	283
4	Repetitive control for systems with uncertain period-time. Automatica, 2002, 38, 2103-2109.	3.0	267
5	Trajectory planning and feedforward design for electromechanical motion systems. Control Engineering Practice, 2005, 13, 145-157.	3.2	252
6	Rule-based energy management strategies for hybrid vehicles. International Journal of Electric and Hybrid Vehicles, 2007, 1, 71.	0.2	189
7	Design of noise and period-time robust high-order repetitive control, with application to optical storage. Automatica, 2007, 43, 2086-2095.	3.0	155
8	Review of Optimization Strategies for System-Level Design in Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	143
9	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.	3.2	123
10	Advanced Motion Control: An Industrial Perspective. European Journal of Control, 1998, 4, 278-293.	1.6	109
11	Frequency domain identification of dynamic friction model parameters. IEEE Transactions on Control Systems Technology, 2002, 10, 191-196.	3.2	109
12	Experimental demonstration of reset control design. Control Engineering Practice, 2000, 8, 113-120.	3.2	104
13	Optimal Control of the Gearshift Command for Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2012, 61, 3531-3543.	3.9	104
14	Design and implementation of parameterized adaptive cruise control: An explicit model predictive control approach. Control Engineering Practice, 2010, 18, 882-892.	3.2	100
15	Performance analysis of reset control systems. International Journal of Robust and Nonlinear Control, 2010, 20, 1213-1233.	2.1	98
16	MIMO feed-forward design in wafer scanners using a gradient approximation-based algorithm. Control Engineering Practice, 2010, 18, 495-506.	3.2	92
17	Velocity and acceleration estimation for optical incremental encoders. Mechatronics, 2010, 20, 20-26.	2.0	84
18	Friction induced hunting limit cycles: A comparison between the LuGre and switch friction model. Automatica, 2003, 39, 2131-2137.	3.0	83

#	ARTICLE	IF	CITATIONS
19	Modeling and Identification for High-Performance Robot Control: An RRR-Robotic Arm Case Study. IEEE Transactions on Control Systems Technology, 2004, 12, 904-919.	3.2	83
20	Cooperative adaptive cruise control, design and experiments. , 2010, , .		83
21	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.	4.4	79
22	Using a Walking Piezo Actuator to Drive and Control a High-Precision Stage. IEEE/ASME Transactions on Mechatronics, 2009, 14, 21-31.	3.7	79
23	Iterative motion feedforward tuning: A data-driven approach based on instrumental variable identification. Control Engineering Practice, 2015, 37, 11-19.	3.2	79
24	Adaptive Iterative Learning Control for High Precision Motion Systems. IEEE Transactions on Control Systems Technology, 2008, 16, 1075-1082.	3.2	72
25	The NANOMEFOS non-contact measurement machine for freeform optics. Precision Engineering, 2011, 35, 607-624.	1.8	70
26	Solution for state constrained optimal control problems applied to power split control for hybrid vehicles. Automatica, 2014, 50, 187-192.	3.0	68
27	Internal-model-based design of repetitive and iterative learning controllers for linear multivariable systems. International Journal of Control, 2000, 73, 914-929.	1.2	66
28	Optimal higher-order encoder time-stamping. Mechatronics, 2013, 23, 481-490.	2.0	65
29	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
30	Using iterative learning control with basis functions to compensate medium deformation in a wide-format inkjet printer. Mechatronics, 2014, 24, 944-953.	2.0	59
31	Fast and smooth clutch engagement control for dual-clutch transmissions. Control Engineering Practice, 2014, 22, 57-68.	3.2	59
32	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.	1.1	58
33	Modeling and Control of a Parallel Waste Heat Recovery System for Euro-VI Heavy-Duty Diesel Engines. Energies, 2014, 7, 6571-6592.	1.6	58
34	Modeling and Waveform Optimization of a Nano-motion Piezo Stage. IEEE/ASME Transactions on Mechatronics, 2011, 16, 615-626.	3.7	54
35	Optimal Control of a Mechanical Hybrid Powertrain. IEEE Transactions on Vehicular Technology, 2012, 61, 485-497.	3.9	51
36	Velocity trajectory optimization in Hybrid Electric trucks. , 2010, , .		50

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37	Identification, control and hysteresis compensation of a 3 DOF metrological AFM. Asian Journal of Control, 2009, 11, 130-143.	1.9	49
38	Two-phase plate-fin heat exchanger modeling for waste heat recovery systems in diesel engines. Applied Energy, 2014, 133, 183-196.	5.1	49
39	Direct data-driven recursive controller unfalsification with analytic update. Automatica, 2007, 43, 2034-2046.	3.0	45
40	Frequency domain based nonlinear feed forward control design for friction compensation. Mechanical Systems and Signal Processing, 2012, 27, 551-562.	4.4	44
41	Semantic world modeling using probabilistic multiple hypothesis anchoring. Robotics and Autonomous Systems, 2013, 61, 95-105.	3.0	44
42	Learning intentions for improved human motion prediction. Robotics and Autonomous Systems, 2014, 62, 591-602.	3.0	44
43	Design, implementation, and experimental validation of optimal power split control for hybrid electric trucks. Control Engineering Practice, 2012, 20, 547-558.	3.2	43
44	Adaptive repetitive control of a compact disc mechanism. , 0, , .		42
45	Model-based feedforward for motion systems. , 0, , .		42
46	Performance optimisation of the push-belt CVT by variator slip control. International Journal of Vehicle Design, 2005, 39, 232.	0.1	41
47	Data-based optimal control. , 0, , .		41
48	Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. Lecture Notes in Computer Science, 2009, , 150-164.	1.0	41
49	Design of a long stroke translation stage for AFM. International Journal of Machine Tools and Manufacture, 2010, 50, 183-190.	6.2	40
50	Real-time control of tearing modes using a line-of-sight electron cyclotron emission diagnostic. Plasma Physics and Controlled Fusion, 2010, 52, 104006.	0.9	40
51	Adaptive control of the radial servo system of a compact disc player. Automatica, 1992, 28, 455-462.	3.0	39
52	Optimal Energy Management in Hybrid Electric Trucks Using Route Information. Oil and Gas Science and Technology, 2010, 65, 103-113.	1.4	39
53	Learning-based identification and iterative learning control of direct-drive robots. IEEE Transactions on Control Systems Technology, 2005, 13, 537-549.	3.2	38
54	Fast and Smooth Clutch Engagement Control for a Mechanical Hybrid Powertrain. IEEE Transactions on Control Systems Technology, 2014, 22, 1241-1254.	3.2	38

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55	Design of CVT-Based Hybrid Passenger Cars. IEEE Transactions on Vehicular Technology, 2009, 58, 572-587.	3.9	36
56	Simulation and control of an automotive dry clutch. , 2004, , .		35
57	Control of a hydraulically actuated continuously variable transmission. Vehicle System Dynamics, 2006, 44, 387-406.	2.2	35
58	Explicit MPC design and performance evaluation of an ACC Stop-&#x0026;-Go. , 2008, , .		35
59	Robust control of a compact disc player. , 0, , .		34
60	Optical boundary reconstruction of tokamak plasmas for feedback control of plasma position and shape. Review of Scientific Instruments, 2010, 81, 113504.	0.6	34
61	Exploiting additional actuators and sensors for nano-positioning robust motion control. Mechatronics, 2014, 24, 619-631.	2.0	34
62	Jerk derivative feedforward control for motion systems. , 2004, , .		32
63	Stability and performance of a variable gain controller with application to a dvd storage drive. Automatica, 2004, 40, 591-602.	3.0	32
64	Spectral analysis of block structured nonlinear systems and higher order sinusoidal input describing functions. Automatica, 2011, 47, 2684-2688.	3.0	30
65	Optimally conditioned instrumental variable approach for frequency-domain system identification. Automatica, 2014, 50, 2281-2293.	3.0	30
66	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
67	Data-driven multivariable controller design using Ellipsoidal Unfalsified Control. Systems and Control Letters, 2008, 57, 759-762.	1.3	28
68	Modeling of a walking piezo actuator. Sensors and Actuators A: Physical, 2010, 162, 51-60.	2.0	28
69	Delay-varying repetitive control with application to a walking piezo actuator. Automatica, 2011, 47, 1737-1743.	3.0	28
70	Robust control of a clutch system to prevent judder-induced driveline oscillations. Vehicle System Dynamics, 2010, 48, 1379-1394.	2.2	27
71	Comparison of Bi-Level Optimization Frameworks for Sizing and Control of a Hybrid Electric Vehicle. , 2014, , .		27
72	Input design for optimal discrete time point-to-point motion of an industrial XY-positioning table. , 0, , .		26

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73	Design of a minimally invasive surgical teleoperated master-slave system with haptic feedback. , 2009, , .		26
74	Model-based spatial feedforward for over-actuated motion systems. Mechatronics, 2014, 24, 307-317.	2.0	26
75	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.	2.1	25
76	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.	1.2	25
77	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.	1.1	25
78	$\hat{H}_\infty$ -synthesis for a compact disc player. International Journal of Robust and Nonlinear Control, 1998, 8, 169-189.	2.1	24
79	Iterative Learning Control of Industrial Motion Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 899-904.	0.4	24
80	Predictive gear shift control for a parallel Hybrid Electric Vehicle. , 2011, , .		24
81	A comparative overview of frequency domain methods for nonlinear systems. Mechatronics, 2017, 42, 11-24.	2.0	24
82	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
83	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
84	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, .	1.7	23
85	Topology and Flywheel Size Optimization for Mechanical Hybrid Powertrains. IEEE Transactions on Vehicular Technology, 2014, 63, 4192-4205.	3.9	23
86	Implementation of Dynamic Programming for Optimal Control Problems With Continuous States. IEEE Transactions on Control Systems Technology, 2015, 23, 1172-1179.	3.2	23
87	Norm optimal Cross-Coupled Iterative Learning Control. , 2008, , .		22
88	Improvement of fuel economy in Power-Shift Automated Manual Transmission through shift strategy optimization - an experimental study. , 2010, , .		22
89	Robust control of piecewise linear systems: A case study in sheet flow control. Control Engineering Practice, 2008, 16, 991-1003.	3.2	21
90	Real-time optical plasma boundary reconstruction for plasma position control at the TCV Tokamak. Nuclear Fusion, 2014, 54, 073018.	1.6	21

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91	Modeling the electromechanical interactions in a null-flux electrodynamic maglev system. IEEE Transactions on Magnetics, 2005, 41, 466-470.	1.2	19
92	Measuring the higher order sinusoidal input describing functions of a non-linear plant operating in feedback. Control Engineering Practice, 2008, 16, 101-113.	3.2	19
93	A novel ball handling mechanism for the RoboCup middle size league. Mechatronics, 2011, 21, 469-478.	2.0	19
94	Integrating experimentation into control courses. IEEE Control Systems, 2005, 25, 40-44.	1.0	18
95	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
96	Improving Continuously Variable Transmission Efficiency With Extremum Seeking Control. IEEE Transactions on Control Systems Technology, 2012, 20, 1376-1383.	3.2	18
97	Analysis of human-in-the-loop tele-operated maintenance inspection tasks using VR. Fusion Engineering and Design, 2013, 88, 2164-2167.	1.0	18
98	Deformable mirrors with thermo-mechanical actuators for extreme ultraviolet lithography: Design, realization and validation. Precision Engineering, 2013, 37, 353-363.	1.8	18
99	Gain Scheduling Control of a Walking Piezo Actuator. IEEE/ASME Transactions on Mechatronics, 2014, 19, 954-962.	3.7	18
100	Time-frequency analysis of a motion system with learning control. , 0, , .		17
101	Iterative learning control with wavelet filtering. International Journal of Robust and Nonlinear Control, 2008, 18, 1052-1071.	2.1	17
102	Accuracy aspects in motion feedforward tuning. , 2014, , .		17
103	Analysis of Slip in a Continuously Variable Transmission. , 2003, , 995.		16
104	A closed-loop control system for stabilization of MHD events on TEXTOR. Fusion Engineering and Design, 2009, 84, 928-934.	1.0	16
105	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
106	Systematic design of a sawtooth period feedback controller using a Kadomtsevâ€™Porcelli sawtooth model. Nuclear Fusion, 2011, 51, 073024.	1.6	16
107	Optimal Trajectories for Vehicles with Energy Recovery Options*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3831-3836.	0.4	16
108	Optimal Control of a Mechanical Hybrid Powertrain With Cold-Start Conditions. IEEE Transactions on Vehicular Technology, 2014, 63, 1555-1566.	3.9	16

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109	Explicit MPC design and performance-based tuning of an Adaptive Cruise Control Stop-&Go. , 2008, , .		15
110	Control-oriented modelling of occupants in frontal impacts. International Journal of Crashworthiness, 2009, 14, 323-337.	1.1	15
111	Extending Energy Management in Hybrid Electric Vehicles with explicit control of gear shifting and start-stop. , 2012, , .		15
112	Experimental Validation of a Dynamic Waste Heat Recovery System Model for Control Purposes. , 2013, , .		15
113	Closed-loop scaling in fixed-point digital control. IEEE Transactions on Control Systems Technology, 1994, 2, 312-317.	3.2	14
114	Nonlinear control of optical storage drives with improved shock performance. Control Engineering Practice, 2005, 13, 1295-1305.	3.2	14
115	Hybrid component specification optimisation for a medium-duty hybrid electric truck. International Journal of Heavy Vehicle Systems, 2008, 15, 356.	0.1	14
116	Frequency domain-based nonlinearity detection and compensation in Lur'e systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1168-1182.	2.1	14
117	Model predictive control of a waste heat recovery system for automotive diesel engines. , 2014, , .		14
118	Directional notch filters for motion control of flexible structures. Mechatronics, 2014, 24, 632-639.	2.0	14
119	On QFT tuning of multivariable $\frac{1}{4}$ controllers. Automatica, 2000, 36, 1701-1708.	3.0	13
120	Development of a smart positioning sensor for the plasma needle. Plasma Sources Science and Technology, 2006, 15, 582-589.	1.3	13
121	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
122	Cloud based centralized task control for human domain multi-robot operations. Intelligent Service Robotics, 2016, 9, 63-77.	1.6	13
123	Modelling and LPV control of an electro-hydraulic servo system. , 2006, , .		13
124	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
125	Iterative learning control with basis functions for media positioning in scanning inkjet printers. , 2012, , .		12
126	A dynamic state observer for real-time reconstruction of the tokamak plasma profile state and disturbances. , 2014, , .		12



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127	Iterative Learning Control and feedforward for LPV systems: Applied to a position-dependent motion system. , 2017, , .		12
128	Advanced Motion Control Design. The Electrical Engineering Handbook, 2010, , 27-1-27-25.	0.2	12
129	On noise- and period-time sensitivity in high order repetitive control. , 2004, , .		11
130	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.	2.0	11
131	Validation of a new adaptive deformable mirror concept. , 2008, , .		11
132	Stability parameter identification for a centrifugal compression system. , 2004, , .		10
133	Feedback control of occupant motion during a crash. International Journal of Crashworthiness, 2006, 11, 81-96.	1.1	10
134	Modelling and LPV control of an electro-hydraulic servo system. , 2006, , .		10
135	Second-order odd-harmonic repetitive control and its application to active filter control. , 2010, , .		10
136	A Model Predictive Control Approach to Design a Parameterized Adaptive Cruise Control. Lecture Notes in Control and Information Sciences, 2010, , 273-284.	0.6	10
137	Directional Repetitive Control of a Metrological AFM. IEEE Transactions on Control Systems Technology, 2011, 19, 1622-1629.	3.2	10
138	Numerical demonstration of injection locking of the sawtooth period by means of modulated EC current drive. Nuclear Fusion, 2011, 51, 103043.	1.6	10
139	Sawtooth period control strategies and designs for improved performance. Nuclear Fusion, 2012, 52, 074005.	1.6	10
140	Exploiting additional actuators and sensors for nano-positioning robust motion control. , 2014, , .		10
141	Robust High Performance Bilateral Teleoperation Under Bounded Time-Varying Dynamics. IEEE Transactions on Control Systems Technology, 2015, 23, 206-218.	3.2	10
142	Modeling and identification of an RRR-robot. , 0, , .		9
143	CVT ratio control strategy optimization. , 0, , .		9
144	Optimization aided loop shaping for motion systems. , 2006, , .		9

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145	Distributed control in adaptive optics: deformable mirror and turbulence modeling. , 2006, , .		9
146	Data-Driven Controller Unfalsification With Analytic Update Applied to a Motion System. IEEE Transactions on Control Systems Technology, 2008, 16, 1207-1217.	3.2	9
147	Model-free norm-based fixed structure controller synthesis. , 2009, , .		9
148	Nonlinearities in Industrial motion stages - detection and classification. , 2010, , .		9
149	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.	3.2	9
150	Real-time wavelet detection of crashes in limit cycles of non-stationary fusion plasmas. Fusion Engineering and Design, 2011, 86, 2908-2919.	1.0	9
151	Heat exchanger modeling and identification for control of Waste Heat Recovery systems in diesel engines. , 2013, , .		9
152	Closed-form kinematic and dynamic models of an industrial-like RRR robot. , 0, , .		8
153	Introduction to an integrated design for motion systems using over-actuation. , 2003, , .		8
154	Anti-shock controller design for optical drives. Control Engineering Practice, 2004, 12, 811-817.	3.2	8
155	NONLINEAR CONTROL OF A LINEAR MOTION SYSTEM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 446-451.	0.4	8
156	Disc defect classification for optical disc drives. IEEE Transactions on Consumer Electronics, 2005, 51, 856-863.	3.0	8
157	Optimal design of energy storage systems for hybrid vehicle drivetrains. , 0, , .		8
158	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
159	Non-iterative data-driven controller tuning with guaranteed stability: Application to direct-drive pick-and-place robot. , 2010, , .		8
160	High Speed Visual Motion Control Applied to Products With Repetitive Structures. IEEE Transactions on Control Systems Technology, 2012, 20, 1450-1460.	3.2	8
161	On inferential Iterative Learning Control: With example to a printing system. , 2014, , .		8
162	Combining extremum seeking control and tracking control for high-performance CVT operation. Control Engineering Practice, 2014, 29, 86-102.	3.2	8

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163	A representation method based on the probability of collision for safe robot navigation in domestic environments. , 2014, , .		8
164	From Optimal to Real-Time Control of a Mechanical Hybrid Powertrain. IEEE Transactions on Control Systems Technology, 2015, 23, 670-678.	3.2	8
165	Motion Control, Mechatronics Design, and Moore's Law. IEEJ Journal of Industry Applications, 2022, 11, 245-255.	0.9	8
166	Dynamic modeling of a generator/rectifier system. IEEE Transactions on Power Electronics, 1992, 7, 212-223.	5.4	7
167	Suppressing non-periodically repeating disturbances in mechanical servo systems. , 0, , .		7
168	Experimentally supported control design for a direct drive robot. , 0, , .		7
169	Haptic feedback designs in teleoperation systems for minimal invasive surgery. , 0, , .		7
170	Modeling and compensation of asymmetric hysteresis in a piezo actuated metrological AFM. , 2009, , .		7
171	Deformable mirrors: design fundamentals for force actuation of continuous facesheets. , 2009, , .		7
172	Reference governors for controlled belt restraint systems. Vehicle System Dynamics, 2010, 48, 831-850.	2.2	7
173	Uniquely connecting frequency domain representations of given order polynomial Wienerâ€™Hammerstein systems. Automatica, 2012, 48, 2381-2384.	3.0	7
174	Design and control of high tech systems. , 2013, , .		7
175	Nanometre-accurate form measurement machine for E-ELT M1 segments. Precision Engineering, 2015, 40, 14-25.	1.8	7
176	Linear viscoelastic fluid characterization of ultra-high-viscosity fluids for high-frequency damper design. Rheologica Acta, 2015, 54, 667-677.	1.1	7
177	Broadband damping of high-precision motion stages. Mechatronics, 2017, 41, 1-16.	2.0	7
178	Active Object Search Exploiting Probabilistic Objectâ€™Object Relations. Lecture Notes in Computer Science, 2014, , 13-24.	1.0	7
179	Iterative learning control for variable setpoints, applied to a motion system. , 2003, , .		6
180	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

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181	The influence of disturbances in iterative learning control. , 0, , .		6
182	A piecewise linear approach towards sheet control in a printer paper path. , 2006, , .		6
183	Data-driven multivariable controller design using Ellipsoidal Unfalsified Control. Proceedings of the American Control Conference, 2007, , .	0.0	6
184	$H_{\infty}$ performance analysis of reset control systems. , 2007, , .		6
185	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
186	Continuous impulsive force controller for Forbidden-Region Virtual Fixtures. , 2008, , .		6
187	Nanometer level freeform surface measurements with the NANOMEFOS non-contact measurement machine. , 2009, , .		6
188	Frequency response data based optimal control using the data based symmetric root locus. , 2010, , .		6
189	Two level world modeling for cooperating robots using a multiple hypotheses filter. , 2011, , .		6
190	Belt-pulley friction estimation for the Continuously Variable Transmission. , 2011, , .		6
191	Systematic design and simulation of a tearing mode suppression feedback control system for the TEXTOR tokamak. Nuclear Fusion, 2012, 52, 074009.	1.6	6
192	Robust sawtooth period control based on adaptive online optimization. Nuclear Fusion, 2012, 52, 074006.	1.6	6
193	Linear control of time-domain constrained systems. Automatica, 2012, 48, 736-746.	3.0	6
194	A fast, magnetics-free flux surface estimation and $q$ -profile reconstruction algorithm for feedback control of plasma profiles. Plasma Physics and Controlled Fusion, 2013, 55, 025007.	0.9	6
195	Feedforward for flexible systems with time-varying performance locations. , 2013, , .		6
196	Task analysis of human-in-the-loop tele-operated maintenance: What can be learned from JET?. Fusion Engineering and Design, 2014, 89, 2283-2288.	1.0	6
197	Second-Order Iterative Learning Control for Scaled Setpoints. IEEE Transactions on Control Systems Technology, 2015, 23, 805-812.	3.2	6
198	Control of a Waste Heat Recovery system with decoupled expander for improved diesel engine efficiency. , 2015, , .		6

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199	Effect of gear shift and engine start losses on energy management strategies for hybrid electric vehicles. International Journal of Powertrains, 2015, 4, 141.	0.1	6
200	Performance of variable-gain controlled optical storage drives. , 2006, , .		5
201	Cogging Compensating Piecewise Iterative Learning Control with application to a motion system. Proceedings of the American Control Conference, 2007, , .	0.0	5
202	Parametric Modeling of Components for Selection and Specification of Hybrid Vehicle Drivetrains. World Electric Vehicle Journal, 2007, 1, 215-224.	1.6	5
203	Circle criterion in linear control design. , 2008, , .		5
204	Velocity and Acceleration Estimation for Optical Incremental Encoders. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 7570-7575.	0.4	5
205	The Empact CVT: modelling, simulation and experiments. International Journal of Modelling, Identification and Control, 2008, 3, 286.	0.2	5
206	Improving pushbelt continuously variable transmission efficiency via extremum seeking control. , 2009, , .		5
207	Repetitive control applied to a walking piezo actuator. , 2009, , .		5
208	Modeling of a walking piezo actuator. , 2009, , .		5
209	A robust-control-relevant model validation approach for continuously variable transmission control. , 2010, , .		5
210	Frequency domain based friction compensation - Industrial application to transmission electron microscopes -. , 2011, , .		5
211	Analysis of modelling and simulation methodologies for vehicular propulsion systems. International Journal of Powertrains, 2011, 1, 117.	0.1	5
212	Model-based feedforward for inferential motion systems, with application to a prototype lightweight motion system. , 2012, , .		5
213	Extremum seeking control with data-based disturbance feedforward. , 2014, , .		5
214	Frequency domain based real-time performance optimization of Lur'e systems. Mechanical Systems and Signal Processing, 2014, 42, 58-70.	4.4	5
215	Extremum Seeking Control With Adaptive Disturbance Feedforward. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 383-388.	0.4	5
216	A task analysis approach to quantify bottlenecks in task completion time of telemanipulated maintenance. Fusion Engineering and Design, 2018, 129, 300-308.	1.0	5

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217	Sharing Open Hardware through ROP, the Robotic Open Platform. Lecture Notes in Computer Science, 2014, , 584-591.	1.0	5
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