

Maarten Steinbuch

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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	String-Stable CACC Design and Experimental Validation: A Frequency-Domain Approach. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 4268-4279	6.8	489
302	Energy management strategies for vehicular electric power systems. <i>IEEE Transactions on Vehicular Technology</i> , 2005 , 54, 771-782	6.8	284
301	Plasma needle for in vivo medical treatment: recent developments and perspectives. <i>Plasma Sources Science and Technology</i> , 2006 , 15, S169-S180	3.5	244
300	Repetitive control for systems with uncertain period-time. <i>Automatica</i> , 2002 , 38, 2103-2109	5.7	201
299	Trajectory planning and feedforward design for electromechanical motion systems. <i>Control Engineering Practice</i> , 2005 , 13, 145-157	3.9	165
298	Rule-based energy management strategies for hybrid vehicles. <i>International Journal of Electric and Hybrid Vehicles</i> , 2007 , 1, 71	0.7	146
297	Design of noise and period-time robust high-order repetitive control, with application to optical storage. <i>Automatica</i> , 2007 , 43, 2086-2095	5.7	114
296	Review of Optimization Strategies for System-Level Design in Hybrid Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 1-1	6.8	96
295	Connecting System Identification and Robust Control for Next-Generation Motion Control of a Wafer Stage. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 102-118	4.8	88
294	. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 3531-3543	6.8	86
293	Advanced Motion Control: An Industrial Perspective. <i>European Journal of Control</i> , 1998 , 4, 278-293	2.5	85
292	Experimental demonstration of reset control design. <i>Control Engineering Practice</i> , 2000 , 8, 113-120	3.9	84
291	Frequency domain identification of dynamic friction model parameters. <i>IEEE Transactions on Control Systems Technology</i> , 2002 , 10, 191-196	4.8	81
290	Performance analysis of reset control systems. <i>International Journal of Robust and Nonlinear Control</i> , 2010 , 20, 1213-1233	3.6	74
289	MIMO feed-forward design in wafer scanners using a gradient approximation-based algorithm. <i>Control Engineering Practice</i> , 2010 , 18, 495-506	3.9	73
288	Design and implementation of parameterized adaptive cruise control: An explicit model predictive control approach. <i>Control Engineering Practice</i> , 2010 , 18, 882-892	3.9	72
287	Friction induced hunting limit cycles: A comparison between the LuGre and switch friction model. <i>Automatica</i> , 2003 , 39, 2131-2137	5.7	69

286	Velocity and acceleration estimation for optical incremental encoders. <i>Mechatronics</i> , 2010 , 20, 20-26	3	65
285	Cooperative adaptive cruise control, design and experiments 2010 ,		64
284	Iterative motion feedforward tuning: A data-driven approach based on instrumental variable identification. <i>Control Engineering Practice</i> , 2015 , 37, 11-19	3.9	59
283	. <i>IEEE Transactions on Control Systems Technology</i> , 2004 , 12, 904-919	4.8	58
282	Higher-order sinusoidal input describing functions for the analysis of non-linear systems with harmonic responses. <i>Mechanical Systems and Signal Processing</i> , 2006 , 20, 1883-1904	7.8	57
281	Solution for state constrained optimal control problems applied to power split control for hybrid vehicles. <i>Automatica</i> , 2014 , 50, 187-192	5.7	55
280	Adaptive Iterative Learning Control for High Precision Motion Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 1075-1082	4.8	55
279	Internal-model-based design of repetitive and iterative learning controllers for linear multivariable systems. <i>International Journal of Control</i> , 2000 , 73, 914-929	1.5	53
278	Using a Walking Piezo Actuator to Drive and Control a High-Precision Stage. <i>IEEE/ASME Transactions on Mechatronics</i> , 2009 , 14, 21-31	5.5	52
277	Fast and smooth clutch engagement control for dual-clutch transmissions. <i>Control Engineering Practice</i> , 2014 , 22, 57-68	3.9	51
276	Uncertainty modelling and structured singular-value computation applied to an electromechanical system. <i>IEE Proceedings D: Control Theory and Applications</i> , 1992 , 139, 301		51
275	Modeling and Control of a Parallel Waste Heat Recovery System for Euro-VI Heavy-Duty Diesel Engines. <i>Energies</i> , 2014 , 7, 6571-6592	3.1	48
274	Optimal gear shift strategies for fuel economy and driveability. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2013 , 227, 1398-1413	1.4	44
273	The NANOMEFOS non-contact measurement machine for freeform optics. <i>Precision Engineering</i> , 2011 , 35, 607-624	2.9	44
272	Two-phase plate-fin heat exchanger modeling for waste heat recovery systems in diesel engines. <i>Applied Energy</i> , 2014 , 133, 183-196	10.7	43
271	. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 485-497	6.8	42
270	2010 ,		42
269	Identification, control and hysteresis compensation of a 3 DOF metrological AFM. <i>Asian Journal of Control</i> , 2009 , 11, 130-143	1.7	42

268	Using iterative learning control with basis functions to compensate medium deformation in a wide-format inkjet printer. <i>Mechatronics</i> , 2014 , 24, 944-953	3	40
267	Modeling and Waveform Optimization of a Nano-motion Piezo Stage. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 615-626	5.5	37
266	Design, implementation, and experimental validation of optimal power split control for hybrid electric trucks. <i>Control Engineering Practice</i> , 2012 , 20, 547-558	3.9	36
265	Real-time control of tearing modes using a line-of-sight electron cyclotron emission diagnostic. <i>Plasma Physics and Controlled Fusion</i> , 2010 , 52, 104006	2	36
264	Direct data-driven recursive controller unfalsification with analytic update. <i>Automatica</i> , 2007 , 43, 2034-2046	7.4	36
263	Optimal higher-order encoder time-stamping. <i>Mechatronics</i> , 2013 , 23, 481-490	3	34
262	Design of a long stroke translation stage for AFM. <i>International Journal of Machine Tools and Manufacture</i> , 2010 , 50, 183-190	9.4	32
261	Performance optimisation of the push-belt CVT by variator slip control. <i>International Journal of Vehicle Design</i> , 2005 , 39, 232	2.4	32
260	Fast and Smooth Clutch Engagement Control for a Mechanical Hybrid Powertrain. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1241-1254	4.8	31
259	Frequency domain based nonlinear feed forward control design for friction compensation. <i>Mechanical Systems and Signal Processing</i> , 2012 , 27, 551-562	7.8	31
258	Adaptive control of the radial servo system of a compact disc player. <i>Automatica</i> , 1992 , 28, 455-462	5.7	31
257	Semantic world modeling using probabilistic multiple hypothesis anchoring. <i>Robotics and Autonomous Systems</i> , 2013 , 61, 95-105	3.5	30
256	Learning intentions for improved human motion prediction. <i>Robotics and Autonomous Systems</i> , 2014 , 62, 591-602	3.5	29
255	Data-based optimal control		29
254	Learning-based identification and iterative learning control of direct-drive robots. <i>IEEE Transactions on Control Systems Technology</i> , 2005 , 13, 537-549	4.8	28
253	Control of a hydraulically actuated continuously variable transmission. <i>Vehicle System Dynamics</i> , 2006 , 44, 387-406	2.8	28
252	Optimal Energy Management in Hybrid Electric Trucks Using Route Information. <i>Oil and Gas Science and Technology</i> , 2010 , 65, 103-113	1.9	27
251	Design of CVT-Based Hybrid Passenger Cars. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 572-586	6.8	27

250	Stability and performance of a variable gain controller with application to a dvd storage drive. <i>Automatica</i> , 2004 , 40, 591-602	5.7	27
249	Optical boundary reconstruction of tokamak plasmas for feedback control of plasma position and shape. <i>Review of Scientific Instruments</i> , 2010 , 81, 113504	1.7	26
248	Exploiting additional actuators and sensors for nano-positioning robust motion control. <i>Mechatronics</i> , 2014 , 24, 619-631	3	25
247	Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. <i>Lecture Notes in Computer Science</i> , 2009 , 150-164	0.9	25
246	Optimally conditioned instrumental variable approach for frequency-domain system identification. <i>Automatica</i> , 2014 , 50, 2281-2293	5.7	24
245	Spectral analysis of block structured nonlinear systems and higher order sinusoidal input describing functions. <i>Automatica</i> , 2011 , 47, 2684-2688	5.7	24
244	Adaptive repetitive control of a compact disc mechanism		24
243	Robust control of a clutch system to prevent judder-induced driveline oscillations. <i>Vehicle System Dynamics</i> , 2010 , 48, 1379-1394	2.8	23
242	Modeling of a walking piezo actuator. <i>Sensors and Actuators A: Physical</i> , 2010 , 162, 51-60	3.9	22
241	Explicit MPC design and performance evaluation of an ACC Stop-&-Go 2008 ,		22
240	Mathematical model of the 5-DOF sled dynamics of an electrodynamic maglev system with a passive sled. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 460-465	2	22
239	Model-based feedforward for motion systems		22
238	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> , 1999 , 9, 123-142	3.6	20
237	Model-based spatial feedforward for over-actuated motion systems. <i>Mechatronics</i> , 2014 , 24, 307-317	3	19
236	Comparison of Bi-Level Optimization Frameworks for Sizing and Control of a Hybrid Electric Vehicle 2014 ,		19
235	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> , 2010 , 132,	3	19
234	Data-driven multivariable controller design using Ellipsoidal Unfalsified Control. <i>Systems and Control Letters</i> , 2008 , 57, 759-762	2.4	19
233	Predictive gear shift control for a parallel Hybrid Electric Vehicle 2011 ,		18

232	Review of Optimal Design Strategies for Hybrid Electric Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 57-64		18
231	Design of a minimally invasive surgical teleoperated master-slave system with haptic feedback 2009 ,		18
230	A comparative overview of frequency domain methods for nonlinear systems. <i>Mechatronics</i> , 2017 , 42, 11-24	3	17
229	Topology and Flywheel Size Optimization for Mechanical Hybrid Powertrains. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 4192-4205	6.8	17
228	Delay-varying repetitive control with application to a walking piezo actuator. <i>Automatica</i> , 2011 , 47, 1737-1743	5.1743	17
227	Synthesis for a compact disc player. <i>International Journal of Robust and Nonlinear Control</i> , 1998 , 8, 169-180		17
226	Implementation of Dynamic Programming for Optimal Control Problems With Continuous States. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1172-1179	4.8	16
225	Real-time optical plasma boundary reconstruction for plasma position control at the TCV Tokamak. <i>Nuclear Fusion</i> , 2014 , 54, 073018	3.3	16
224	Deformable mirrors with thermo-mechanical actuators for extreme ultraviolet lithography: Design, realization and validation. <i>Precision Engineering</i> , 2013 , 37, 353-363	2.9	16
223	Gear shift map design methodology for automotive transmissions. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2014 , 228, 50-72	1.4	16
222	A novel ball handling mechanism for the RoboCup middle size league. <i>Mechatronics</i> , 2011 , 21, 469-478	3	16
221	Norm optimal Cross-Coupled Iterative Learning Control 2008 ,		16
220	Rule-Based Equivalent Fuel Consumption Minimization Strategies for Hybrid Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 5652-5657		16
219	Measuring the higher order sinusoidal input describing functions of a non-linear plant operating in feedback. <i>Control Engineering Practice</i> , 2008 , 16, 101-113	3.9	16
218	Simulation and control of an automotive dry clutch 2004 ,		16
217	Modeling the electromechanical interactions in a null-flux electrodynamic maglev system. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 466-470	2	15
216	Jerk derivative feedforward control for motion systems 2004 ,		15
215	Directional notch filters for motion control of flexible structures. <i>Mechatronics</i> , 2014 , 24, 632-639	3	14

214	Improving Continuously Variable Transmission Efficiency With Extremum Seeking Control. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 1376-1383	4.8	14
213	Experimental Validation of a Dynamic Waste Heat Recovery System Model for Control Purposes 2013 ,		14
212	Improvement of fuel economy in Power-Shift Automated Manual Transmission through shift strategy optimization - an experimental study 2010 ,		14
211	Error modeling and improved position estimation for optical incremental encoders by means of time stamping. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	14
210	Nonlinear control of optical storage drives with improved shock performance. <i>Control Engineering Practice</i> , 2005 , 13, 1295-1305	3.9	14
209			14
208	. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 1555-1566	6.8	13
207	Accuracy aspects in motion feedforward tuning 2014 ,		13
206	Hybrid component specification optimisation for a medium-duty hybrid electric truck. <i>International Journal of Heavy Vehicle Systems</i> , 2008 , 15, 356	0.5	13
205	Robust control of piecewise linear systems: A case study in sheet flow control. <i>Control Engineering Practice</i> , 2008 , 16, 991-1003	3.9	13
204	Development of a smart positioning sensor for the plasma needle. <i>Plasma Sources Science and Technology</i> , 2006 , 15, 582-589	3.5	13
203	Input design for optimal discrete time point-to-point motion of an industrial XY-positioning table		13
202	A closed-loop control system for stabilization of MHD events on TEXTOR. <i>Fusion Engineering and Design</i> , 2009 , 84, 928-934	1.7	12
201	Analysis of human-in-the-loop tele-operated maintenance inspection tasks using VR. <i>Fusion Engineering and Design</i> , 2013 , 88, 2164-2167	1.7	11
200	Model predictive control of a waste heat recovery system for automotive diesel engines 2014 ,		11
199	Optimal Trajectories for Vehicles with Energy Recovery Options*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 3831-3836		11
198	Explicit MPC design and performance-based tuning of an Adaptive Cruise Control Stop-&-Go 2008 ,		11
197	Experimental characterization of the stick/sliding transition in a precision mechanical system using the third order sinusoidal input describing function. <i>Mechatronics</i> , 2008 , 18, 100-110	3	11

196	Cloud based centralized task control for human domain multi-robot operations. <i>Intelligent Service Robotics</i> , 2016 , 9, 63-77	2.6	10
195	A dynamic state observer for real-time reconstruction of the tokamak plasma profile state and disturbances 2014 ,		10
194	Frequency domain-based nonlinearity detection and compensation in Lur'e systems. <i>International Journal of Robust and Nonlinear Control</i> , 2013 , 23, 1168-1182	3.6	10
193	Systematic design of a sawtooth period feedback controller using a Kadomtsev-Porcelli sawtooth model. <i>Nuclear Fusion</i> , 2011 , 51, 073024	3.3	10
192	ENERGY MANAGEMENT IN HYBRID ELECTRIC VEHICLES: BENEFIT OF PREDICTION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 264-269		10
191	Iterative learning control with wavelet filtering. <i>International Journal of Robust and Nonlinear Control</i> , 2008 , 18, 1052-1071	3.6	10
190	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</i> , 2006 , 39, 740-745		10
189	Time-frequency analysis of a motion system with learning control		10
188	Analysis of Slip in a Continuously Variable Transmission 2003 , 995		10
187	Advanced Motion Control Design. <i>The Electrical Engineering Handbook</i> , 2010 , 27-1-27-25		10
186	Second-order odd-harmonic repetitive control and its application to active filter control 2010 ,		9
185	Control-oriented modelling of occupants in frontal impacts. <i>International Journal of Crashworthiness</i> , 2009 , 14, 323-337	1	9
184	Numerical demonstration of injection locking of the sawtooth period by means of modulated EC current drive. <i>Nuclear Fusion</i> , 2011 , 51, 103043	3.3	9
183	Integrating experimentation into control courses. <i>IEEE Control Systems</i> , 2005 , 25, 40-44	2.9	9
182	On QFT tuning of multivariable controllers. <i>Automatica</i> , 2000 , 36, 1701-1708	5.7	9
181	Modelling and LPV control of an electro-hydraulic servo system 2006 ,		9
180	Gain Scheduling Control of a Walking Piezo Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014 , 19, 954-962	5.5	8
179	Exploiting additional actuators and sensors for nano-positioning robust motion control 2014 ,		8

178	Sawtooth period control strategies and designs for improved performance. <i>Nuclear Fusion</i> , 2012 , 52, 074005	3.3	8
177	High Performance and Stable Teleoperation under Bounded Operator and Environment Dynamics. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 373-379		8
176	Disc defect classification for optical disc drives. <i>IEEE Transactions on Consumer Electronics</i> , 2005 , 51, 856-863		8
175	Feedback control of occupant motion during a crash. <i>International Journal of Crashworthiness</i> , 2006 , 11, 81-96	1	8
174	Robust High Performance Bilateral Teleoperation Under Bounded Time-Varying Dynamics. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 206-218	4.8	7
173	Linear viscoelastic fluid characterization of ultra-high-viscosity fluids for high-frequency damper design. <i>Rheologica Acta</i> , 2015 , 54, 667-677	2.3	7
172	Iterative Learning Control and feedforward for LPV systems: Applied to a position-dependent motion system 2017 ,		7
171	On inferential Iterative Learning Control: With example to a printing system 2014 ,		7
170	High Speed Visual Motion Control Applied to Products With Repetitive Structures. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 1450-1460	4.8	7
169	2012 ,		7
168	Heat exchanger modeling and identification for control of Waste Heat Recovery systems in diesel engines 2013 ,		7
167	Real-time wavelet detection of crashes in limit cycles of non-stationary fusion plasmas. <i>Fusion Engineering and Design</i> , 2011 , 86, 2908-2919	1.7	7
166	A Model Predictive Control Approach to Design a Parameterized Adaptive Cruise Control. <i>Lecture Notes in Control and Information Sciences</i> , 2010 , 273-284	0.5	7
165	Directional Repetitive Control of a Metrological AFM. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 1622-1629	4.8	7
164	Extending Energy Management in Hybrid Electric Vehicles with explicit control of gear shifting and start-stop 2012 ,		7
163	Data-Driven Controller Unfalsification With Analytic Update Applied to a Motion System. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 1207-1217	4.8	7
162	Validation of a new adaptive deformable mirror concept 2008 ,		7
161	Distributed control in adaptive optics: deformable mirror and turbulence modeling 2006 ,		7

160	Anti-shock controller design for optical drives. <i>Control Engineering Practice</i> , 2004 , 12, 811-817	3.9	7
159	On noise- and period-time sensitivity in high order repetitive control 2004 ,		7
158	Iterative Learning Control of Industrial Motion Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 899-904		7
157	. <i>IEEE Transactions on Control Systems Technology</i> , 1994 , 2, 312-317	4.8	7
156	Combining extremum seeking control and tracking control for high-performance CVT operation. <i>Control Engineering Practice</i> , 2014 , 29, 86-102	3.9	6
155	Effect of gear shift and engine start losses on energy management strategies for hybrid electric vehicles. <i>International Journal of Powertrains</i> , 2015 , 4, 141	0.5	6
154	Uniquely connecting frequency domain representations of given order polynomial Wiener-Hammerstein systems. <i>Automatica</i> , 2012 , 48, 2381-2384	5.7	6
153	Reference governors for controlled belt restraint systems. <i>Vehicle System Dynamics</i> , 2010 , 48, 831-850	2.8	6
152	Nonlinearities in Industrial motion stages - detection and classification 2010 ,		6
151	Control Relevant Blind Identification of Disturbances With Application to a Multivariable Active Vibration Isolation Platform. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 393-404	4.8	6
150	Systematic design and simulation of a tearing mode suppression feedback control system for the TEXTOR tokamak. <i>Nuclear Fusion</i> , 2012 , 52, 074009	3.3	6
149	Implementation of an Optimal Control Energy Management Strategy in a Hybrid Truck. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 61-66		6
148	Introduction to an integrated design for motion systems using over-actuation 2003 ,		6
147	Stability parameter identification for a centrifugal compression system 2004 ,		6
146	CVT ratio control strategy optimization		6
145	Broadband damping of high-precision motion stages. <i>Mechatronics</i> , 2017 , 41, 1-16	3	5
144	. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 670-678	4.8	5
143	Task analysis of human-in-the-loop tele-operated maintenance: What can be learned from JET?. <i>Fusion Engineering and Design</i> , 2014 , 89, 2283-2288	1.7	5

142	Linear control of time-domain constrained systems. <i>Automatica</i> , 2012 , 48, 736-746	5.7	5
141	Robust sawtooth period control based on adaptive online optimization. <i>Nuclear Fusion</i> , 2012 , 52, 074006,3	5.3	5
140	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> , 2013 , 55, 025007	2	5
139	Analysis of modelling and simulation methodologies for vehicular propulsion systems. <i>International Journal of Powertrains</i> , 2011 , 1, 117	0.5	5
138	Non-iterative data-driven controller tuning with guaranteed stability: Application to direct-drive pick-and-place robot 2010 ,		5
137	Model-free norm-based fixed structure controller synthesis 2009 ,		5
136	Modeling and compensation of asymmetric hysteresis in a piezo actuated metrological AFM 2009 ,		5
135	Deformable mirrors: design fundamentals for force actuation of continuous facesheets 2009 ,		5
134	Circle criterion in linear control design 2008 ,		5
133	The Impact CVT: modelling, simulation and experiments. <i>International Journal of Modelling, Identification and Control</i> , 2008 , 3, 286	0.6	5
132	Parametric Modeling of Components for Selection and Specification of Hybrid Vehicle Drivetrains. <i>World Electric Vehicle Journal</i> , 2007 , 1, 215-224	2.5	5
131	Performance of variable-gain controlled optical storage drives 2006 ,		5
130	Optimal design of energy storage systems for hybrid vehicle drivetrains		5
129	Haptic feedback designs in teleoperation systems for minimal invasive surgery		5
128	. <i>IEEE Transactions on Power Electronics</i> , 1992 , 7, 212-223	7.2	5
127	Frequency domain based real-time performance optimization of Lur'e systems. <i>Mechanical Systems and Signal Processing</i> , 2014 , 42, 58-70	7.8	4
126	Extremum Seeking Control With Adaptive Disturbance Feedforward. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 383-388		4
125	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> , 2014 , 47, 10018-10023		4

124	A representation method based on the probability of collision for safe robot navigation in domestic environments 2014 ,		4
123	Control of a Waste Heat Recovery system with decoupled expander for improved diesel engine efficiency 2015 ,		4
122	Exploiting rational basis functions in iterative learning control 2013 ,		4
121	Integrating planning and execution for ROS enabled service robots using hierarchical action representations 2013 ,		4
120	Feedforward for flexible systems with time-varying performance locations 2013 ,		4
119	Model-Based Drift Control for Electron Microscopes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 8583-8588		4
118	Frequency response data based optimal control using the data based symmetric root locus 2010 ,		4
117	Frequency domain based friction compensation - Industrial application to transmission electron microscopes - 2011 ,		4
116	Two level world modeling for cooperating robots using a multiple hypotheses filter 2011 ,		4
115	Improving pushbelt continuously variable transmission efficiency via extremum seeking control 2009 ,		4
114	Model-based feedforward for inferential motion systems, with application to a prototype lightweight motion system 2012 ,		4
113	Nanometer level freeform surface measurements with the NANOMEFOS non-contact measurement machine 2009 ,		4
112	Continuous impulsive force controller for Forbidden-Region Virtual Fixtures 2008 ,		4
111	Cogging Compensating Piecewise Iterative Learning Control with application to a motion system. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	4
110	Data-driven multivariable controller design using Ellipsoidal Unfalsified Control. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	4
109	Time-frequency analysis of position-dependent dynamics in a Motion System with ILC. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	4
108	Optimization aided loop shaping for motion systems 2006 ,		4
107	Suppressing non-periodically repeating disturbances in mechanical servo systems		4

106	Active Object Search Exploiting Probabilistic Object-Object Relations. <i>Lecture Notes in Computer Science</i> , 2014 , 13-24	0.9	4
105	Sharing Open Hardware through ROP, the Robotic Open Platform. <i>Lecture Notes in Computer Science</i> , 2014 , 584-591	0.9	4
104	Non-diagonal H ₂ weighting function design: Exploiting spatio-temporal deformations in precision motion control. <i>Control Engineering Practice</i> , 2015 , 35, 35-42	3.9	3
103	Data-based spatial feedforward for over-actuated motion systems. <i>Mechatronics</i> , 2014 , 24, 679-690	3	3
102	Design and control of high tech systems 2013 ,		3
101	Second-Order Iterative Learning Control for Scaled Setpoints. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 805-812	4.8	3
100	Nanometre-accurate form measurement machine for E-ELT M1 segments. <i>Precision Engineering</i> , 2015 , 40, 14-25	2.9	3
99	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> , 2014 , 228, 443-456	1.4	3
98	Extremum seeking control with data-based disturbance feedforward 2014 ,		3
97	ITER Upper Port Plug handling cask system assessment and design proposals. <i>Fusion Engineering and Design</i> , 2011 , 86, 1937-1940	1.7	3
96	Hierarchical control for drift correction in transmission electron microscopes 2011 ,		3
95	ECE system on ASDEX-upgrade placed inline at the high power waveguide based transmission system 2009 ,		3
94	Repetitive control applied to a walking piezo actuator 2009 ,		3
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