

Tom Oomen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

187
papers

1,608
citations

23
h-index

32
g-index

212
ext. papers

2,139
ext. citations

2.8
avg, IF

5.62
L-index

#	Paper	IF	Citations
187	A Fast Smoothing-Based Algorithm to Generate l_1 -Norm Constrained Signals for Multivariable Experiment Design 2022 , 6, 1784-1789		0
186	Hysteresis Feedforward Compensation: A Direct Tuning Approach Using Hybrid-MEM-Elements 2022 , 6, 1070-1075		0
185	Frequency Response Data-Based LPV Controller Synthesis Applied to a Control Moment Gyroscope. <i>IEEE Transactions on Control Systems Technology</i> , 2022 , 1-9	4.8	0
184	Frequency Response Function-Based Learning Control: Analysis and Design for Finite-Time Convergence. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	
183	Iterative learning control for intermittently sampled data: Monotonic convergence, design, and applications. <i>Automatica</i> , 2022 , 139, 110171	5.7	0
182	Gaussian process repetitive control: Beyond periodic internal models through kernels. <i>Automatica</i> , 2022 , 140, 110273	5.7	1
181	Flipped halfwave: improved modeling of spontaneous breathing effort. <i>IFAC-PapersOnLine</i> , 2021 , 54, 175-179	0.7	0
180	Frequency Response Data-driven LPV Controller Synthesis for MIMO Systems 2021 , 1-1		
179	A Closed-Loop Perspective on Fault Detection for Precision Motion Control: With Application to an Overactuated System 2021 ,		3
178	Closed-loop Aspects in MIMO Fault Diagnosis with Application to Precision Mechatronics 2021 ,		2
177	Direct data-driven design of LPV controllers with soft performance specifications. <i>Journal of the Franklin Institute</i> , 2021 , 359, 816-816	4	
176	Digital Twins in Mechatronics: From Model-based Control to Predictive Maintenance 2021 ,		3
175	Identifying Position-Dependent Mechanical Systems: A Modal Approach Applied to a Flexible Wafer Stage. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 194-206	4.8	5
174	. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 180-193	4.8	6
173	Frequency response function identification of periodically scheduled linear parameter-varying systems. <i>Mechanical Systems and Signal Processing</i> , 2021 , 148, 107156	7.8	0
172	Accurate pressure tracking to support mechanically ventilated patients using an estimated nonlinear hose model and delay compensation. <i>Control Engineering Practice</i> , 2021 , 106, 104660	3.9	
171	Multivariable nonparametric learning: A robust iterative inversion-based control approach. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 541-564	3.6	2

170	Incorporating Prior Knowledge in Local Parametric Modeling for Frequency Response Measurements: Applied to Thermal/Mechanical Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-11	4.8	1
169	Model Order Selection in Robust-Control-Relevant System Identification. <i>IFAC-PapersOnLine</i> , 2021 , 54, 1-6	0.7	0
168	Frequency-Domain Data-Driven Controller Synthesis for Unstable LPV Systems. <i>IFAC-PapersOnLine</i> , 2021 , 54, 109-115	0.7	2
167	Data-dependent orthogonal polynomials on generalized circles: A unified approach applied to Edomain identification. <i>Automatica</i> , 2021 , 131, 109709	5.7	
166	Model-Free Learning for Massive MIMO Systems: Stochastic Approximation Adjoint Iterative Learning Control 2021 , 5, 1946-1951		0
165	Motion Control, Mechatronics Design, and Moore's Law. <i>IEEJ Journal of Industry Applications</i> , 2021 ,	0.7	2
164	Multivariable Repetitive Control: Decentralized Designs With Application to Continuous Media Flow Printing. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 294-304	5.5	7
163	Sequential Multiperiod Repetitive Control Design With Application to Industrial Wide-Format Printing. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 770-778	5.5	6
162	Kernel-based identification of non-causal systems with application to inverse model control. <i>Automatica</i> , 2020 , 114, 108830	5.7	6
161	Fast extremum seeking using multisine dither and online complex curve fitting. <i>IFAC-PapersOnLine</i> , 2020 , 53, 5362-5367	0.7	1
160	Multivariable Experiment Design with Application to a Wafer Stage: a Sequential Relaxation Approach for Dealing with Element-Wise Constraints. <i>IFAC-PapersOnLine</i> , 2020 , 53, 8565-8570	0.7	
159	Monotonically Convergent Iterative Learning Control for Piecewise Affine Systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1474-1479	0.7	
158	On Frequency Response Function Identification for Advanced Motion Control 2020 ,		2
157	Learning for Advanced Motion Control 2020 ,		2
156	Suppressing Position-Dependent Disturbances in Repetitive Control: With Application to a Substrate Carrier System 2020 ,		2
155	Gaussian Process Repetitive Control for Suppressing Spatial Disturbances. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1487-1492	0.7	4
154	On the Role of Models in Learning Control: Actor-Critic Iterative Learning Control. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1450-1455	0.7	0
153	Improving mechanical ventilation for patient care through repetitive control. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1415-1420	0.7	4

152	Temperature-Dependent Modeling of Thermoelectric Elements. <i>IFAC-PapersOnLine</i> , 2020 , 53, 8625-8630.	0.7	1
151	Commutation-Angle Iterative Learning Control for Intermittent Data: Enhancing Piezo-Stepper Actuator Waveforms. <i>IFAC-PapersOnLine</i> , 2020 , 53, 8585-8590	0.7	1
150	Improving Intersample Behavior in Discrete-Time System Inversion: With Application to LTI and LPTV Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 55-65	5.5	3
149	Frequency Response Function identification for multivariable motion control: Optimal experiment design with element-wise constraints. <i>Mechatronics</i> , 2020 , 71, 102440	3	0
148	Layer-to-Layer Predictive Control of Inkjet 3-D Printing. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 1783-1793	5.5	3
147	Fast and accurate identification of thermal dynamics for precision motion control: Exploiting transient data and additional disturbance inputs. <i>Mechatronics</i> , 2020 , 70, 102401	3	2
146	Data-driven feedforward tuning using non-causal rational basis functions: With application to an industrial flatbed printer. <i>Mechatronics</i> , 2020 , 71, 102424	3	2
145	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 413-424	4.8	1
144	Beyond Performance/Cost Tradeoffs in Motion Control: A Multirate Feedforward Design With Application to a Dual-Stage Wafer System. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 448-461	4.8	10
143	Multivariable Iterative Learning Control Design Procedures: From Decentralized to Centralized, Illustrated on an Industrial Printer. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1534-1544	4.8	17
142	Essential challenges in motion control education. <i>IFAC-PapersOnLine</i> , 2019 , 52, 200-205	0.7	5
141	Data-driven iterative inversion-based control: Achieving robustness through nonlinear learning. <i>Automatica</i> , 2019 , 107, 342-352	5.7	18
140	Beyond equidistant sampling for performance and cost: A loop-shaping approach applied to a motion system. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 408-432	3.6	1
139	Mitigation of Torsional Vibrations in Drilling Systems: A Robust Control Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 249-265	4.8	20
138	Finite-Time Learning Control Using Frequency Response Data With Application to a Nanopositioning Stage. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 2085-2096	5.5	12
137	Iterative learning control in high-performance motion systems: from theory to implementation 2019 ,		2
136	Line-to-line repetitive control of a 6-DoF hexapod stage for overlay measurements using Atomic Force Microscopy 2019 ,		2
135	Exact and Causal Inversion of Nonminimum-Phase Systems: A Squaring-Down Approach for Overactuated Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 2953-2963	5.5	2

134	Towards Data-Driven LPV Controller Synthesis Based on Frequency Response Functions 2019 ,		3
133	Data-Driven LPV Reference Tracking for a Control Moment Gyroscope. <i>IFAC-PapersOnLine</i> , 2019 , 52, 134-139	0.7	0
132	Intermittent Sampling in Iterative Learning Control: a Monotonically-Convergent Gradient-Descent Approach with Application to Time Stamping 2019 ,		1
131	Online hose calibration for pressure control in mechanical ventilation 2019 ,		1
130	Multivariable Learning Using Frequency Response Data: A Robust Iterative Inversion-Based Control Approach with Application 2019 ,		1
129	Beyond Quantization in Iterative Learning Control: Exploiting Time-Varying Time-Stamps 2019 ,		3
128	Identifying Thermal Dynamics for Precision Motion Control. <i>IFAC-PapersOnLine</i> , 2019 , 52, 73-78	0.7	2
127	Learning Control Without Prior Models: Multi-Variable Model-Free IIC, with application to a Wide-Format Printer. <i>IFAC-PapersOnLine</i> , 2019 , 52, 91-96	0.7	0
126	Multi-Layer Spatial Iterative Learning Control for Micro-Additive Manufacturing. <i>IFAC-PapersOnLine</i> , 2019 , 52, 97-102	0.7	3
125	From Batch-to-Batch to Online Learning Control: Experimental Motion Control Case Study. <i>IFAC-PapersOnLine</i> , 2019 , 52, 406-411	0.7	
124	Commutation Angle Iterative Learning Control: Enhancing Piezo-Stepper Actuator Waveforms. <i>IFAC-PapersOnLine</i> , 2019 , 52, 579-584	0.7	2
123	Optimal Experiment Design for Multi-variable Motion Systems: with Application to a Next-Generation Wafer Stage. <i>IFAC-PapersOnLine</i> , 2019 , 52, 615-620	0.7	2
122	Feedforward Motion Control: From Batch-to-Batch Learning to Online Parameter Estimation 2019 ,		1
121	Beyond decentralized wafer/reticle stage control design: A double-Youla approach for enhancing synchronized motion. <i>Control Engineering Practice</i> , 2019 , 83, 21-32	3.9	10
120	Stable inversion of LPTV systems with application in position-dependent and non-equidistantly sampled systems. <i>International Journal of Control</i> , 2019 , 92, 1022-1032	1.5	6
119	Experimental estimation of transmissibility matrices for industrial multi-axis vibration isolation systems. <i>Mechanical Systems and Signal Processing</i> , 2018 , 107, 469-483	7.8	12
118	Non-parametric identification of multivariable systems: A local rational modeling approach with application to a vibration isolation benchmark. <i>Mechanical Systems and Signal Processing</i> , 2018 , 105, 129-152	7.8	18
117	Control-oriented models for ink-jet 3D printing. <i>Mechatronics</i> , 2018 , 56, 211-219	3	13

116	Data-driven multivariable ILC: enhanced performance by eliminating L and Q filters. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 3728-3751	3.6	20
115	Frequency-domain optimization of fixed-structure controllers. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 3784-3805	3.6	10
114	Optimal Estimation of Rational Feedforward Control via Instrumental Variables: With Application to a Wafer Stage. <i>Asian Journal of Control</i> , 2018 , 20, 975-992	1.7	7
113	On inversion-based approaches for feedforward and ILC. <i>Mechatronics</i> , 2018 , 50, 282-291	3	53
112	Achieving Perfect Causal Feedforward Control in Presence of Nonminimum-Phase Behavior - Exploiting Additional Actuators and Squaring Down 2018 ,		5
111	Improving transient learning behavior in model-free inversion-based iterative control with application to a desktop printer 2018 ,		3
110	Kernel-based regression of non-causal systems for inverse model feedforward estimation 2018 ,		1
109	LPTV loop-shaping with application to non-equidistantly sampled precision mechatronics 2018 ,		5
108	Advanced Motion Control for Precision Mechatronics: Control, Identification, and Learning of Complex Systems. <i>IEEJ Journal of Industry Applications</i> , 2018 , 7, 127-140	0.7	37
107	Thermo-Mechanical Behavior in Precision Motion Control: Unified Framework for Fast and Accurate FRF Identification 2018 ,		1
106	Data-Driven Feedforward Learning using Non-Causal Rational Basis Functions: Application to an Industrial Flatbed Printer 2018 ,		5
105	Numerically Reliable Identification of Fast Sampled Systems: A Novel \mathbb{D} Domain Data-Dependent Orthonormal Polynomial Approach 2018 ,		1
104	Inverse System Estimation for Feedforward: A Kernel-Based Approach for Non-Causal Systems. <i>IFAC-PapersOnLine</i> , 2018 , 51, 1050-1055	0.7	4
103	Frequency Response Function Identification of LPV Systems: a Global Approach with Application to Mechanical Systems. <i>IFAC-PapersOnLine</i> , 2018 , 51, 108-113	0.7	4
102	Improved Local Rational Method by incorporating system knowledge: with application to mechanical and thermal dynamical systems. <i>IFAC-PapersOnLine</i> , 2018 , 51, 808-813	0.7	5
101	Tensor methods for MIMO decoupling and control design using frequency response functions. <i>Mechatronics</i> , 2017 , 45, 71-81	3	6
100	Iterative Learning Control of Iteration-Varying Systems via Robust Update Laws with Experimental Implementation. <i>Control Engineering Practice</i> , 2017 , 62, 36-45	3.9	22
99	Accurate FRF Identification of LPV Systems: nD-LPM With Application to a Medical X-Ray System. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1724-1735	4.8	11

98	A local rational model approach for H _∞ norm estimation: With application to an active vibration isolation system. <i>Control Engineering Practice</i> , 2017 , 68, 63-70	3.9	7
97	Evaluating performance of multivariable vibration isolators: A frequency domain identification approach applied to an industrial AVIS 2017 ,		1
96	Sparse iterative learning control with application to a wafer stage: Achieving performance, resource efficiency, and task flexibility. <i>Mechatronics</i> , 2017 , 47, 134-147	3	25
95	Iterative Learning Control and feedforward for LPV systems: Applied to a position-dependent motion system 2017 ,		7
94	Batch-to-Batch Rational Feedforward Control: From Iterative Learning to Identification Approaches, With Application to a Wafer Stage. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 826-837	5.5	38
93	Enhancing feedforward controller tuning via instrumental variables: with application to nanopositioning. <i>International Journal of Control</i> , 2017 , 90, 746-764	1.5	23
92	Enhancing Flatbed Printer Accuracy and Throughput: Optimal Rational Feedforward Controller Tuning Via Iterative Learning Control. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4207-4216	8.9	25
91	Identification of Control-Relevant Diesel Engine Models Using a Local Linear Parametric Approach * *This work was supported by DAF Trucks N.V.. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7836-7841	0.7	7
90	On Optimal Feedforward and ILC: The Role of Feedback for Optimal Performance and Inferential Control. <i>IFAC-PapersOnLine</i> , 2017 , 50, 6093-6098	0.7	1
89	Global Feedforward Control of Spatio-Temporal Mechanical Systems: With Application to a Prototype Wafer Stage. <i>IFAC-PapersOnLine</i> , 2017 , 50, 14575-14580	0.7	3
88	Inverting Nonminimum-Phase Systems from the Perspectives of Feedforward and ILC * *This research is supported by the Dutch Technology Foundation STW, carried out as part of the Robust Cyber-Physical Systems (RCPS) project (no. 12694); and Innovational Research Incentives Scheme under the VENI grant Precision Motion: Beyond the Nanometer (no. 13073) awarded by NWO	0.7	2
87	Flexible ILC: Towards a Convex Approach for Non-Causal Rational Basis Functions. <i>IFAC-PapersOnLine</i> , 2017 , 50, 12107-12112	0.7	6
86	Synchronizing Decentralized Control Loops for Overall Performance Enhancement: A Youla Framework Applied to a Wafer Scanner. <i>IFAC-PapersOnLine</i> , 2017 , 50, 10845-10850	0.7	6
85	Distributed model predictive control for ink-jet 3D printing 2017 ,		4
84	Multivariable repetitive control design framework applied to flatbed printing with continuous media flow 2017 ,		5
83	An approach to stable inversion of LPTV systems with application to a position-dependent motion system 2017 ,		2
82	Tensor methods for MIMO decoupling using frequency response functions**This work was supported in part by the Fund for Scientific Research (FWO-Vlaanderen), by the Flemish Government (Methusalem), the Belgian Government through the Inter university Poles of Attraction (IAP VII) Program, and by the ERC advanced grant SNLSiD, under contract 320378. This work is also	0.7	2
81	Frequency response function identification of LPV systems: A 2D-LRM approach with application to a medical X-ray system 2016 , (no. 13073) awarded by NWO (Th. <i>IFAC-PapersOnLine</i> , 2016 , 49, 447-453		2

80	Identification for motion control: Incorporating constraints and numerical considerations 2016 ,		5
79	Inferential Iterative Learning Control: A 2D-system approach. <i>Automatica</i> , 2016 , 71, 247-253	5.7	23
78	. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3285-3300	5.9	8
77	Optimality and flexibility in Iterative Learning Control for varying tasks. <i>Automatica</i> , 2016 , 67, 295-302	5.7	42
76	Constrained Iterative Feedback Tuning for Robust Control of a Wafer Stage System. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 56-66	4.8	48
75	Frequency-Domain ILC Approach for Repeating and Varying Tasks: With Application to Semiconductor Bonding Equipment. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 2716-2727	5.5	35
74	Rational iterative feedforward tuning: Approaches, stable inversion, and experimental comparison 2016 ,		6
73	On the potential of lifted domain feedforward controllers with a periodic sampling sequence 2016 ,		6
72	Design Techniques for Multivariable ILC: Application to an Industrial Flatbed Printer. <i>IFAC-PapersOnLine</i> , 2016 , 49, 213-221	0.7	4
71	Resource Efficient ILC: Enabling Large Tasks on an Industrial Position-Dependent Flatbed Printer. <i>IFAC-PapersOnLine</i> , 2016 , 49, 567-574	0.7	
70	Estimating structural deformations for inferential control: a disturbance observer approach. <i>IFAC-PapersOnLine</i> , 2016 , 49, 642-648	0.7	7
69	Iterative Control for Periodic Tasks with Robustness Considerations, Applied to a Nanopositioning Stage. <i>IFAC-PapersOnLine</i> , 2016 , 49, 623-628	0.7	8
68	Design and modeling aspects in multivariable iterative learning control 2016 ,		5
67	Resource-efficient ILC for LTI/LTV systems through LQ tracking and stable inversion: Enabling large feedforward tasks on a position-dependent printer. <i>Mechatronics</i> , 2016 , 38, 76-90	3	30
66	Rational Basis Functions in Iterative Learning Control With Experimental Verification on a Motion System. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 722-729	4.8	68
65	Inferential Motion Control: Identification and Robust Control Framework for Positioning an Unmeasurable Point of Interest. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1602-1610	4.8	23
64	Non-diagonal H _∞ weighting function design: Exploiting spatio-temporal deformations in precision motion control. <i>Control Engineering Practice</i> , 2015 , 35, 35-42	3.9	3
63	IFT-LPV: Data-Based Tuning of Fixed Structure Controllers for LPV Systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 721-726	0.7	1

62	Identification of High-Tech Motion Systems: An Active Vibration Isolation Benchmark. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1250-1255	0.7	17
61	Asymptotically exact direct data-driven multivariable controller tuning. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1349-1354	0.7	5
60	Unified ILC framework for repeating and varying tasks: A frequency domain approach with application to a wire-bonder 2015 ,		2
59	Optimal estimation of rational feedforward controllers: An instrumental variable approach 2015 ,		7
58	Enhancing current density profile control in tokamak experiments using iterative learning control 2015 ,		6
57	Feedforward for multi-rate motion control: Enhanced performance and cost-effectiveness 2015 ,		5
56	Robust output-feedback control to eliminate stick-slip oscillations in drill-string systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 266-271	0.7	15
55	Accurate frequency response function identification of LPV systems: A 2D local parametric modeling approach 2015 ,		5
54	Data-driven optimal ILC for multivariable systems: Removing the need for L and Q filter design 2015 ,		2
53	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
52	Identification for robust control of complex systems: algorithm and motion application 2015 , 101-124		2
51	Controlling aliased dynamics in motion systems? An identification for sampled-data control approach. <i>International Journal of Control</i> , 2014 , 87, 1406-1422	1.5	3
50	Iterative Data-Driven \mathcal{H}_{∞} Norm Estimation of Multivariable Systems With Application to Robust Active Vibration Isolation. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 2247-2260	4.8	30
49	Optimally conditioned instrumental variable approach for frequency-domain system identification. <i>Automatica</i> , 2014 , 50, 2281-2293	5.7	24
48	Exploiting additional actuators and sensors for nano-positioning robust motion control. <i>Mechatronics</i> , 2014 , 24, 619-631	3	25
47	Subspace predictive repetitive control to mitigate periodic loads on large scale wind turbines. <i>Mechatronics</i> , 2014 , 24, 916-925	3	36
46	Joint input shaping and feedforward for point-to-point motion: Automated tuning for an industrial nanopositioning system. <i>Mechatronics</i> , 2014 , 24, 572-581	3	41
45	Introduction to the special issue on control of high-precision motion systems. <i>Mechatronics</i> , 2014 , 24, 547-548	3	1

44	Constrained Iterative Feedback Tuning for Robust High-Precision Motion Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 4915-4920		6
43	Robust Active Vibration Isolation: A Multivariable Data-Driven Approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 4754-4759		
42	Enhancing H_{∞} Norm Estimation using Local LPM/LRM Modeling: Applied to an AVIS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 10856-10861		8
41	Subspace Predictive Repetitive Control with Lifted Domain Identification for Wind Turbine Individual Pitch Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 6436-6441		2
40	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
39	Subspace Predictive Repetitive Control for wind turbine load alleviation using trailing edge flaps 2014 ,		3
38	Aspects in inferential Iterative Learning Control: A 2D systems analysis 2014 ,		2
37	Accuracy aspects in motion feedforward tuning 2014 ,		13
36	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
35	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
34	On inferential Iterative Learning Control: With example to a printing system 2014 ,		7
33	Exploiting additional actuators and sensors for nano-positioning robust motion control 2014 ,		8
32	Iterative Feedforward Tuning Approach and Experimental Verification for Nano-Precision Motion Systems 2014 ,		4
31	High Performance Continuously Variable Transmission Control Through Robust Control-Relevant Model Validation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	2
30	Iterative feedforward control: a closed-loop identification problem and a solution 2013 ,		9
29	Exploiting rational basis functions in iterative learning control 2013 ,		4
28	Enhancing performance through multivariable weighting function design in H_{∞} loop-shaping: with application to a motion system 2013 ,		3
27	Uniquely connecting frequency domain representations of given order polynomial Wiener-Hammerstein systems. <i>Automatica</i> , 2012 , 48, 2381-2384	5.7	6

26	System identification for achieving robust performance. <i>Automatica</i> , 2012 , 48, 1975-1987	5-7	22
25	Analyzing iterations in identification with application to nonparametric Herm estimation. <i>Automatica</i> , 2012 , 48, 2776-2790	5-7	19
24	Next-generation wafer stage motion control: Connecting system identification and robust control 2012 ,		6
23	2012 ,		7
22	Bi-orthonormal basis functions for improved frequency-domain system identification 2012 ,		2
21	New Connections Between Frequency Response Functions for a Class of Nonlinear Systems*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 280-285		
20	Numerically Reliable Frequency-Domain Estimation of Transfer Functions: A Computationally Efficient Methodology*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 595-600		3
19	Selecting Uncertainty Structures in Identification for Robust Control with an Automotive Application. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 601-606		
18	System Identification and Low-Order Optimal Control of Intersample Behavior in ILC. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 2734-2739	5-9	13
17	Analyzing Iterations in Identification with Application to Nonparametric Herm Estimation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 9972-9977		
16	Inferential motion control: Identification and robust control with unmeasured performance variables 2011 ,		11
15	A robust-control-relevant perspective on model order selection 2011 ,		3
14	A robust-control-relevant model validation approach for continuously variable transmission control 2010 ,		2
13	Experimental validation of a truck roll model using asynchronous measurements with low signal-to-noise ratios 2010 ,		1
12	Experimental evaluation of robust-control-relevance: A confrontation with a next-generation wafer stage 2010 ,		2
11	Identification and visualization of robust-control-relevant model sets with application to an industrial wafer stage 2010 ,		3
10	Reading of cracked optical discs using Iterative Learning Control 2009 ,		1
9	Identification for robust inferential control 2009 ,		8

8	Suppressing intersample behavior in iterative learning control. <i>Automatica</i> , 2009 , 45, 981-988	5.7	29
7	Robust-Control-Relevant Coprime Factor Identification with Application to Model Validation of a Wafer Stage. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1044-1049 ¹		
6	Well-Posed Model Uncertainty Estimation by Design of Validation Experiments. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1199-1204		7
5	Recovering Data from Cracked Optical Discs using Hankel Iterative Learning Control 2009 , 147-166		
4	Robust-control-relevant coprime factor identification: A numerically reliable frequency domain approach 2008 ,		7
3	Estimating disturbances and model uncertainty in model validation for robust control 2008 ,		6
2	Aliasing of Resonance Phenomena in Sampled-Data Feedback Control Design: Hazards, Modeling, and a Solution. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	1
1	Design framework for high-performance optimal sampled-data control with application to a wafer stage. <i>International Journal of Control</i> , 2007 , 80, 919-934	1.5	23