Tom Oomen

List of Publications by Year
in descending order

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Version: 2024-02-01

		172457	254184
211	2,654	29	43
papers	citations	h-index	g-index

212	212	212	876
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Frequency Response Function-Based Learning Control: Analysis and Design for Finite-Time Convergence. IEEE Transactions on Automatic Control, 2023, 68, 1807-1814.	5.7	2
2	Incorporating Prior Knowledge in Local Parametric Modeling for Frequency Response Measurements: Applied to Thermal/Mechanical Systems. IEEE Transactions on Control Systems Technology, 2022, 30, 142-152.	5.2	1
3	Direct data-driven design of LPV controllers with soft performance specifications. Journal of the Franklin Institute, 2022, 359, 816-836.	3.4	3
4	Hysteresis Feedforward Compensation: A Direct Tuning Approach Using Hybrid-MEM-Elements. , 2022, 6, 1070-1075.		4
5	Motion Control, Mechatronics Design, and Moore's Law. IEEJ Journal of Industry Applications, 2022, 11, 245-255.	1.1	8
6	Frequency Response Data-Driven LPV Controller Synthesis for MIMO Systems. , 2022, 6, 2264-2269.		6
7	A Fast Smoothing-Based Algorithm to Generate l âˆž -Norm Constrained Signals for Multivariable Experiment Design. , 2022, 6, 1784-1789.		1
8	Frequency Response Data-Based LPV Controller Synthesis Applied to a Control Moment Gyroscope. IEEE Transactions on Control Systems Technology, 2022, 30, 2734-2742.	5.2	5
9	Gaussian Processes for Advanced Motion Control. IEEJ Journal of Industry Applications, 2022, 11, 396-407.	1.1	6
10	Gaussian Process Position-Dependent Feedforward: With Application to a Wire Bonder. , 2022, , .		1
11	Peak Amplitude-Constrained Experiment Design for FRF Identification of MIMO Motion Systems. , 2022, , .		1
12	A Gaussian Process Approach to Multiple Internal Models in Repetitive Control. , 2022, , .		1
13	Iterative learning control for intermittently sampled data: Monotonic convergence, design, and applications. Automatica, 2022, 139, 110171.	5.0	9
14	Gaussian process repetitive control: Beyond periodic internal models through kernels. Automatica, 2022, 140, 110273.	5.0	9
15	Noninvasive Breathing Effort Estimation of Mechanically Ventilated Patients Using Sparse Optimization. , 2022, 1, 57-68.		4
16	Identifying Position-Dependent Mechanical Systems: A Modal Approach Applied to a Flexible Wafer Stage. IEEE Transactions on Control Systems Technology, 2021, 29, 194-206.	5.2	18
17	Adaptive Control for Mechanical Ventilation for Improved Pressure Support. IEEE Transactions on Control Systems Technology, 2021, 29, 180-193.	5.2	18
18	Frequency response function identification of periodically scheduled linear parameter-varying systems. Mechanical Systems and Signal Processing, 2021, 148, 107156.	8.0	5

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19	Accurate pressure tracking to support mechanically ventilated patients using an estimated nonlinear hose model and delay compensation. Control Engineering Practice, 2021, 106, 104660.	5.5	4
20	Multivariable nonparametric learning: A robust iterative inversionâ€based control approach. International Journal of Robust and Nonlinear Control, 2021, 31, 541-564.	3.7	4
21	Model Order Selection in Robust-Control-Relevant System Identification. IFAC-PapersOnLine, 2021, 54, 1-6.	0.9	2
22	Control for Precision Mechatronics. , 2021, , 267-276.		0
23	Frequency-Domain Data-Driven Controller Synthesis for Unstable LPV Systems. IFAC-PapersOnLine, 2021, 54, 109-115.	0.9	3
24	Multirate State Tracking for Improving Intersample Behavior in Iterative Learning Control. , 2021, , .		6
25	A Closed-Loop Perspective on Fault Detection for Precision Motion Control: With Application to an Overactuated System. , 2021, , .		3
26	Suppressing spatially distributed disturbances by exploiting additional sensors and actuators in inferential motion control. , 2021, , .		1
27	Accurate $mathcal{H}_{infty}$-Norm Estimation via Finite-Frequency Norms of Local Parametric Models. , 2021, , .		2
28	Closed-loop Aspects in MIMO Fault Diagnosis with Application to Precision Mechatronics. , 2021, , .		3
29	Model-Free Learning for Massive MIMO Systems: Stochastic Approximation Adjoint Iterative Learning Control. , 2021, , .		0
30	Suppressing non-collocated disturbances in inferential motion control: with application to a wafer stage. , 2021, , .		0
31	Kernel-Based Learning Control for Iteration-Varying Tasks Applied to a Printer With Friction. , 2021, , .		0
32	Digital Twins in Mechatronics: From Model-based Control to Predictive Maintenance. , 2021, , .		12
33	Data-dependent orthogonal polynomials on generalized circles: A unified approach applied to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e645" altimg="si656.svg"><mml:mi>Î´</mml:mi></mml:math>-domain identification. Automatica, 2021, 131, 109709.	5.0	0
34	Model-Free Learning for Massive MIMO Systems: Stochastic Approximation Adjoint Iterative Learning Control. , 2021, 5, 1946-1951.		5
35	Flipped halfwave: improved modeling of spontaneous breathing effort. IFAC-PapersOnLine, 2021, 54, 175-179.	0.9	2
36	Linear repetitive control for a nonlinear mechanical ventilation system using feedback linearization. , 2021, , .		1

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37	Intermittent Sampling in Repetitive Control: Exploiting Time-Varying Measurements. , 2021, , .		0
38	Conjugate Gradient MIMO Iterative Learning Control Using Data-Driven Stochastic Gradients. , 2021, , .		1
39	Iterative Identification and Control Using Non-normalized Coprime Factors With Application in Wafer Stage Motion Control. IEEE Transactions on Control Systems Technology, 2020, 28, 413-424.	5.2	5
40	Beyond Performance/Cost Tradeoffs in Motion Control: A Multirate Feedforward Design With Application to a Dual-Stage Wafer System. IEEE Transactions on Control Systems Technology, 2020, 28, 448-461.	5.2	16
41	Multivariable Iterative Learning Control Design Procedures: From Decentralized to Centralized, Illustrated on an Industrial Printer. IEEE Transactions on Control Systems Technology, 2020, 28, 1534-1541.	5.2	28
42	Improving Intersample Behavior in Discrete-Time System Inversion: With Application to LTI and LPTV Systems. IEEE/ASME Transactions on Mechatronics, 2020, 25, 55-65.	5.8	6
43	Frequency Response Function identification for multivariable motion control: Optimal experiment design with element-wise constraints. Mechatronics, 2020, 71, 102440.	3.3	6
44	Layer-to-Layer Predictive Control of Inkjet 3-D Printing. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1783-1793.	5.8	12
45	Fast and accurate identification of thermal dynamics for precision motion control: Exploiting transient data and additional disturbance inputs. Mechatronics, 2020, 70, 102401.	3.3	4
46	Data-driven feedforward tuning using non-causal rational basis functions: With application to an industrial flatbed printer. Mechatronics, 2020, 71, 102424.	3.3	11
47	Multivariable Repetitive Control: Decentralized Designs With Application to Continuous Media Flow Printing. IEEE/ASME Transactions on Mechatronics, 2020, 25, 294-304.	5.8	12
48	Sequential Multiperiod Repetitive Control Design With Application to Industrial Wide-Format Printing. IEEE/ASME Transactions on Mechatronics, 2020, 25, 770-778.	5.8	12
49	Kernel-based identification of non-causal systems with application to inverse model control. Automatica, 2020, 114, 108830.	5.0	28
50	Improving mechanical ventilation for patient care through repetitive control. IFAC-PapersOnLine, 2020, 53, 1415-1420.	0.9	10
51	Temperature-Dependent Modeling of Thermoelectric Elements. IFAC-PapersOnLine, 2020, 53, 8625-8630.	0.9	1
52	Commutation-Angle Iterative Learning Control for Intermittent Data: Enhancing Piezo-Stepper Actuator Waveforms. IFAC-PapersOnLine, 2020, 53, 8585-8590.	0.9	3
53	Control for Precision Mechatronics. , 2020, , 1-10.		6
54	Suppressing Position-Dependent Disturbances in Repetitive Control: With Application to a Substrate Carrier System. , 2020, , .		4

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55	Gaussian Process Repetitive Control for Suppressing Spatial Disturbances. IFAC-PapersOnLine, 2020, 53, 1487-1492.	0.9	12
56	On the Role of Models in Learning Control: Actor-Critic Iterative Learning Control. IFAC-PapersOnLine, 2020, 53, 1450-1455.	0.9	3
57	Fast extremum seeking using multisine dither and online complex curve fitting. IFAC-PapersOnLine, 2020, 53, 5362-5367.	0.9	1
58	Multivariable Experiment Design with Application to a Wafer Stage: a Sequential Relaxation Approach for Dealing with Element-Wise Constraints. IFAC-PapersOnLine, 2020, 53, 8565-8570.	0.9	0
59	Monotonically Convergent Iterative Learning Control for Piecewise Affine Systems. IFAC-PapersOnLine, 2020, 53, 1474-1479.	0.9	1
60	On Frequency Response Function Identification for Advanced Motion Control. , 2020, , .		3
61	Learning for Advanced Motion Control. , 2020, , .		11
62	Mitigation of Torsional Vibrations in Drilling Systems: A Robust Control Approach. IEEE Transactions on Control Systems Technology, 2019, 27, 249-265.	5.2	36
63	Finite-Time Learning Control Using Frequency Response Data With Application to a Nanopositioning Stage. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2085-2096.	5.8	20
64	Iterative learning control in high-performance motion systems: from theory to implementation. , 2019, , .		3
65	Essential challenges in motion control education. IFAC-PapersOnLine, 2019, 52, 200-205.	0.9	12
66	Data-driven iterative inversion-based control: Achieving robustness through nonlinear learning. Automatica, 2019, 107, 342-352.	5.0	34
67	Beyond equidistant sampling for performance and cost: A loopâ€shaping approach applied to a motion system. International Journal of Robust and Nonlinear Control, 2019, 29, 408-432.	3.7	3
68	Exact and Causal Inversion of Nonminimum-Phase Systems: A Squaring-Down Approach for Overactuated Systems. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2953-2963.	5.8	3
69	Towards Data-Driven LPV Controller Synthesis Based on Frequency Response Functions. , 2019, , .		7
70	Data-Driven LPV Reference Tracking for a Control Moment Gyroscope. IFAC-PapersOnLine, 2019, 52, 134-139.	0.9	3
71	Intermittent Sampling in Iterative Learning Control: a Monotonically-Convergent Gradient-Descent Approach with Application to Time Stamping. , 2019, , .		2
72	Online hose calibration for pressure control in mechanical ventilation. , 2019, , .		1

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73	Multivariable Learning Using Frequency Response Data: A Robust Iterative Inversion-Based Control Approach with Application. , 2019, , .		2
74	Beyond Quantization in Iterative Learning Control: Exploiting Time-Varying Time-Stamps. , 2019, , .		6
75	Identifying Thermal Dynamics for Precision Motion Control. IFAC-PapersOnLine, 2019, 52, 73-78.	0.9	3
76	Learning Control Without Prior Models: Multi-Variable Model-Free IIC, with application to a Wide-Format Printer. IFAC-PapersOnLine, 2019, 52, 91-96.	0.9	3
77	Multi-Layer Spatial Iterative Learning Control for Micro-Additive Manufacturing. IFAC-PapersOnLine, 2019, 52, 97-102.	0.9	10
78	From Batch-to-Batch to Online Learning Control: Experimental Motion Control Case Study. IFAC-PapersOnLine, 2019, 52, 406-411.	0.9	1
79	Commutation Angle Iterative Learning Control: Enhancing Piezo-Stepper Actuator Waveforms. IFAC-PapersOnLine, 2019, 52, 579-584.	0.9	3
80	Optimal Experiment Design for Multi-variable Motion Systems: with Application to a Next-Generation Wafer Stage. IFAC-PapersOnLine, 2019, 52, 615-620.	0.9	2
81	Feedforward Motion Control: From Batch-to-Batch Learning to Online Parameter Estimation. , 2019, , .		3
82	Beyond decentralized wafer/reticle stage control design: A double-Youla approach for enhancing synchronized motion. Control Engineering Practice, 2019, 83, 21-32.	5.5	13
83	Stable inversion of LPTV systems with application in position-dependent and non-equidistantly sampled systems. International Journal of Control, 2019, 92, 1022-1032.	1.9	7
84	Line-to-line repetitive control of a 6-DoF hexapod stage for overlay measurements using Atomic Force Microscopy. , 2019, , .		4
85	Experimental estimation of transmissibility matrices for industrial multi-axis vibration isolation systems. Mechanical Systems and Signal Processing, 2018, 107, 469-483.	8.0	17
86	Non-parametric identification of multivariable systems: A local rational modeling approach with application to a vibration isolation benchmark. Mechanical Systems and Signal Processing, 2018, 105, 129-152.	8.0	29
87	Control-oriented models for ink-jet 3D printing. Mechatronics, 2018, 56, 211-219.	3.3	25
88	Dataâ€driven multivariable ILC: enhanced performance by eliminating L and Q filters. International Journal of Robust and Nonlinear Control, 2018, 28, 3728-3751.	3.7	46
89	Frequencyâ€domain optimization of fixedâ€structure controllers. International Journal of Robust and Nonlinear Control, 2018, 28, 3784-3805.	3.7	16
90	Optimal Estimation of Rational Feedforward Control via Instrumental Variables: With Application to a Wafer Stage. Asian Journal of Control, 2018, 20, 975-992.	3.0	13

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91	On inversion-based approaches for feedforward and ILC. Mechatronics, 2018, 50, 282-291.	3.3	97
92	Data-Driven Feedforward Learning using Non-Causal Rational Basis Functions: Application to an Industrial Flatbed Printer. , 2018, , .		8
93	Numerically Reliable Identification of Fast Sampled Systems: A Novel Î´-Domain Data-Dependent Orthonormal Polynomial Approach. , 2018, , .		1
94	Inverse System Estimation for Feedforward: A Kernel-Based Approach for Non-Causal Systems. IFAC-PapersOnLine, 2018, 51, 1050-1055.	0.9	4
95	Frequency Response Function Identification of LPV Systems: a Global Approach with Application to Mechanical Systems. IFAC-PapersOnLine, 2018, 51, 108-113.	0.9	5
96	Improved Local Rational Method by incorporating system knowledge: with application to mechanical and thermal dynamical systems. IFAC-PapersOnLine, 2018, 51, 808-813.	0.9	8
97	Accommodating Trial-Varying Tasks in Iterative Learning Control for LPV Systems, Applied to Printer Sheet Positioning. , 2018, , .		2
98	Achieving Perfect Causal Feedforward Control in Presence of Nonminimum-Phase Behavior - Exploiting Additional Actuators and Squaring Down. , 2018, , .		5
99	Improving transient learning behavior in model-free inversion-based iterative control with application to a desktop printer. , 2018, , .		7
100	Kernel-based regression of non-causal systems for inverse model feedforward estimation. , 2018, , .		1
101	LPTV loop-shaping with application to non-equidistantly sampled precision mechatronics. , 2018, , .		6
102	Sparse iterative learning control (SPILC): When to sample for resource-efficiency?. , 2018, , .		0
103	Advanced Motion Control for Precision Mechatronics: Control, Identification, and Learning of Complex Systems. IEEJ Journal of Industry Applications, 2018, 7, 127-140.	1.1	82
104	Thermo-Mechanical Behavior in Precision Motion Control: Unified Framework for Fast and Accurate FRF Identification. , 2018, , .		2
105	Tensor methods for MIMO decoupling and control design using frequency response functions. Mechatronics, 2017, 45, 71-81.	3.3	13
106	Iterative Learning Control of Iteration-Varying Systems via Robust Update Laws with Experimental Implementation. Control Engineering Practice, 2017, 62, 36-45.	5.5	33
107	Accurate FRF Identification of LPV Systems: nD-LPM With Application to a Medical X-Ray System. IEEE Transactions on Control Systems Technology, 2017, 25, 1724-1735.	5.2	14
108	A local rational model approach for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si14.gif" display="inline" id="mml29" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="script">H</mml:mi></mml:mrow><mml:mrow><mml:mi>âˆž</mml:mi></mml:mrow></mml:msub></mml:math>-norm estimation: With application to an active vibration isolation system. Control Engineering Practice, 2017, 68, 63-70.	3.5	11

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109	Evaluating performance of multivariable vibration isolators: A frequency domain identification approach applied to an industrial AVIS. , 2017, , .		1
110	Sparse iterative learning control with application to a wafer stage: Achieving performance, resource efficiency, and task flexibility. Mechatronics, 2017, 47, 134-147.	3.3	46
111	Iterative Learning Control and feedforward for LPV systems: Applied to a position-dependent motion system. , 2017, , .		12
112	Batch-to-Batch Rational Feedforward Control: From Iterative Learning to Identification Approaches, With Application to a Wafer Stage. IEEE/ASME Transactions on Mechatronics, 2017, 22, 826-837.	5.8	63
113	Enhancing feedforward controller tuning via instrumental variables: with application to nanopositioning. International Journal of Control, 2017, 90, 746-764.	1.9	30
114	Enhancing Flatbed Printer Accuracy and Throughput: Optimal Rational Feedforward Controller Tuning Via Iterative Learning Control. IEEE Transactions on Industrial Electronics, 2017, 64, 4207-4216.	7.9	40
115	Identification of Control-Relevant Diesel Engine Models Using a Local Linear Parametric Approach * *This work was supported by DAF Trucks N.V.. IFAC-PapersOnLine, 2017, 50, 7836-7841.	0.9	7
116	On Optimal Feedforward and ILC: The Role of Feedback for Optimal Performance and Inferential Control * *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 (The Netherlands Organization for scientific Research).. IFAC-PapersOnLine, 2017, 50, 6093-6098.	0.9	1
117	Global Feedforward Control of Spatio-Temporal Mechanical Systems: With Application to a Prototype Wafer Stage. IFAC-PapersOnLine, 2017, 50, 14575-14580.	0.9	5
118	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 â€œPrecision Motion: Beyond the Nanometerâ€•(no. 13073) awarded by NWO (The Netherlands) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.9	6
119	Flexible ILC: Towards a Convex Approach for Non-Causal Rational Basis Functions. IFAC-PapersOnLine, 2017, 50, 12107-12112.	0.9	11
120	Synchronizing Decentralized Control Loops for Overall Performance Enhancement: A Youla Framework Applied to a Wafer Scanner. IFAC-PapersOnLine, 2017, 50, 10845-10850.	0.9	7
121	Distributed model predictive control for ink-jet 3D printing. , 2017, , .		10
122	Data-driven H<inf>â^ž</inf>-norm estimation via expert advice. , 2017, , .		2
123	Multivariable repetitive control design framework applied to flatbed printing with continuous media flow. , 2017, , .		7
124	An approach to stable inversion of LPTV systems with application to a position-dependent motion system. , 2017, , .		2
125	Frequency-Domain ILC Approach for Repeating and Varying Tasks: With Application to Semiconductor Bonding Equipment. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2716-2727.	5.8	64
126	Rational iterative feedforward tuning: Approaches, stable inversion, and experimental comparison. , 2016, , .		8

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127	On the potential of lifted domain feedforward controllers with a periodic sampling sequence. , 2016, , .		6
128	Design Techniques for Multivariable ILC: Application to an Industrial Flatbed Printer. IFAC-PapersOnLine, 2016, 49, 213-221.	0.9	10
129	Resource Efficient ILC: Enabling Large Tasks on an Industrial Position-Dependent Flatbed Printer. IFAC-PapersOnLine, 2016, 49, 567-574.	0.9	1
130	Estimating structural deformations for inferential control: a disturbance observer approach. IFAC-PapersOnLine, 2016, 49, 642-648.	0.9	10
131	Iterative Control for Periodic Tasks with Robustness Considerations, Applied to a Nanopositioning Stage**This work is supported by the Innovational Research Incentives Scheme under the VENI grant Precision Motion: Beyond the Nanometer (no. 13073) awarded by NWO (The Netherlands Organisation) Tj ETQq1 1 0.784314 rgBT /Ov	0.9	11
132	Design and modeling aspects in multivariable iterative learning control. , 2016, , .		5
133	Resource-efficient ILC for LTI/LTV systems through LQ tracking and stable inversion: Enabling large feedforward tasks on a position-dependent printer. Mechatronics, 2016, 38, 76-90.	3.3	40
134	Tensor methods for MIMO decoupling using frequency response functions**This work was supported in part by the Fund for Scientic 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 supported by the Innovational Research Incentives Scheme under the VENI grant Precision Motion: Beyond the Nanometer (no. 13073)		

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145	Optimal estimation of rational feedforward controllers: An instrumental variable approach. , 2015, , .		9
146	Enhancing current density profile control in tokamak experiments using iterative learning control. , 2015, , .		9
147	Feedforward for multi-rate motion control: Enhanced performance and cost-effectiveness. , 2015, , .		5
148	Robust output-feedback control to eliminate stick-slip oscillations in drill-string systems. IFAC-PapersOnLine, 2015, 48, 266-271.	0.9	19
149	Accurate frequency response function identification of LPV systems: A 2D local parametric modeling approach. , 2015, , .		5
150	Data-driven optimal ILC for multivariable systems: Removing the need for L and Q filter design. , 2015, , .		3
151	Iterative motion feedforward tuning: A data-driven approach based on instrumental variable identification. Control Engineering Practice, 2015, 37, 11-19.	5.5	79
152	Rational Basis Functions in Iterative Learning Controlâ€"With Experimental Verification on a Motion System. IEEE Transactions on Control Systems Technology, 2015, 23, 722-729.	5.2	98
153	Inferential Motion Control: Identification and Robust Control Framework for Positioning an Unmeasurable Point of Interest. IEEE Transactions on Control Systems Technology, 2015, 23, 1602-1610.	5.2	29
154	Iterative Learning Control for varying tasks: Achieving optimality for rational basis functions. , 2015, ,		3
155	Non-diagonal <mml:math altimg="si0039.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" 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" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml	5.5	3
156	Identification for robust control of complex systems: algorithm and motion application. , 2015, , 101-124.		3
157	Subspace Predictive Repetitive Control for wind turbine load alleviation using trailing edge flaps. , 2014, , .		3
158	Aspects in inferential Iterative Learning Control: A 2D systems analysis. , 2014, , .		2
159	Accuracy aspects in motion feedforward tuning. , 2014, , .		17
160	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
161	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
162	On inferential Iterative Learning Control: With example to a printing system. , 2014, , .		8

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163	Exploiting additional actuators and sensors for nano-positioning robust motion control. , 2014, , .		10
164	Controlling aliased dynamics in motion systems? An identification for sampled-data control approach. International Journal of Control, 2014, 87, 1406-1422.	1.9	4
165	Iterative Data-Driven H Norm Estimation of Multivariable Systems With Application to Robust Active Vibration Isolation. IEEE Transactions on Control Systems Technology, 2014, 22, 2247-2260.	5.2	53
166	Optimally conditioned instrumental variable approach for frequency-domain system identification. Automatica, 2014, 50, 2281-2293.	5.0	30
167	Exploiting additional actuators and sensors for nano-positioning robust motion control. Mechatronics, 2014, 24, 619-631.	3.3	34
168	Subspace predictive repetitive control to mitigate periodic loads on large scale wind turbines. Mechatronics, 2014, 24, 916-925.	3.3	41
169	Joint input shaping and feedforward for point-to-point motion: Automated tuning for an industrial nanopositioning system. Mechatronics, 2014, 24, 572-581.	3.3	62
170	Introduction to the special issue on control of high-precision motion systems. Mechatronics, 2014, 24, 547-548.	3.3	2
171	Constrained Iterative Feedback Tuning for Robust High-Precision Motion Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4915-4920.	0.4	7
172	Robust Active Vibration Isolation: A Multivariable Data-Driven Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4754-4759.	0.4	0
173	Enhancing â„‹ âˆž Norm Estimation using Local LPM/LRM Modeling: Applied to an AVIS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10856-10861.	0.4	9
174	Subspace Predictive Repetitive Control with Lifted Domain Identification for Wind Turbine Individual Pitch Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6436-6441.	0.4	3
175	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
176	Iterative Feedforward Tuning Approach and Experimental Verification for Nano-Precision Motion Systems. , 2014, , .		5
177	High Performance Continuously Variable Transmission Control Through Robust Control-Relevant Model Validation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	3
178	Iteratively learning the ℌ<inf>∞</inf>-norm of multivariable systems applied to model-error-modeling of a vibration isolation system. , 2013, , .		1
179	Iterative feedforward control: a closed-loop identification problem and a solution. , 2013, , .		10
180	Exploiting rational basis functions in iterative learning control. , 2013, , .		4

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181	Enhancing performance through multivariable weighting function design in ℋ<inf>−</inf> loop-shaping: with application to a motion system. , 2013, , .		4
182	Bi-orthonormal basis functions for improved frequency-domain system identification. , 2012, , .		2
183	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
184	Numerically Reliable Frequency-Domain Estimation of Transfer Functions: A Computationally Efficient Methodology. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 595-600.	0.4	6
185	Selecting Uncertainty Structures in Identification for Robust Control with an Automotive Application. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 601-606.	0.4	1
186	Uniquely connecting frequency domain representations of given order polynomial Wienerâ€“Hammerstein systems. Automatica, 2012, 48, 2381-2384.	5.0	7
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