Tom Oomen

List of Publications by Year
in descending order

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		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	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
2	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
3	On inversion-based approaches for feedforward and ILC. Mechatronics, 2018, 50, 282-291.	3.3	97
4	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
5	Iterative motion feedforward tuning: A data-driven approach based on instrumental variable identification. Control Engineering Practice, 2015, 37, 11-19.	5.5	79
6	Constrained Iterative Feedback Tuning for Robust Control of a Wafer Stage System. IEEE Transactions on Control Systems Technology, 2016, 24, 56-66.	5.2	77
7	Optimality and flexibility in Iterative Learning Control for varying tasks. Automatica, 2016, 67, 295-302.	5.0	66
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	Subspace predictive repetitive control to mitigate periodic loads on large scale wind turbines. Mechatronics, 2014, 24, 916-925.	3.3	41
16	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
17	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
18	Mitigation of Torsional Vibrations in Drilling Systems: A Robust Control Approach. IEEE Transactions on Control Systems Technology, 2019, 27, 249-265.	5.2	36

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19	Exploiting additional actuators and sensors for nano-positioning robust motion control. Mechatronics, 2014, 24, 619-631.	3.3	34
20	Data-driven iterative inversion-based control: Achieving robustness through nonlinear learning. Automatica, 2019, 107, 342-352.	5.0	34
21	Suppressing intersample behavior in iterative learning control. Automatica, 2009, 45, 981-988.	5.0	33
22	System identification for achieving robust performance. Automatica, 2012, 48, 1975-1987.	5.0	33
23	Iterative Learning Control of Iteration-Varying Systems via Robust Update Laws with Experimental Implementation. Control Engineering Practice, 2017, 62, 36-45.	5.5	33
24	Design framework for high-performance optimal sampled-data control with application to a wafer stage. International Journal of Control, 2007, 80, 919-934.	1.9	32
25	Inferential Iterative Learning Control: A 2D-system approach. Automatica, 2016, 71, 247-253.	5.0	32
26	Optimally conditioned instrumental variable approach for frequency-domain system identification. Automatica, 2014, 50, 2281-2293.	5.0	30
27	Enhancing feedforward controller tuning via instrumental variables: with application to nanopositioning. International Journal of Control, 2017, 90, 746-764.	1.9	30
28	Analyzing iterations in identification with application to nonparametric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="script">H</mml:mi></mml:mrow><mml:mrow><mml:mi>â^ž</mml:mi></mml:mrow></mml:msub></mml:math>-norm estimation. Automatica, 2012, 48, 2776-2790.	5.0	29
29	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
30	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
31	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
32	Kernel-based identification of non-causal systems with application to inverse model control. Automatica, 2020, 114, 108830.	5.0	28
33	Control-oriented models for ink-jet 3D printing. Mechatronics, 2018, 56, 211-219.	3.3	25
34	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
35	Robust output-feedback control to eliminate stick-slip oscillations in drill-string systems. IFAC-PapersOnLine, 2015, 48, 266-271.	0.9	19
36	System Identification and Low-Order Optimal Control of Intersample Behavior in ILC. IEEE Transactions on Automatic Control, 2011, 56, 2734-2739.	5.7	18

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37	Identification of High-Tech Motion Systems: An Active Vibration Isolation Benchmark. IFAC-PapersOnLine, 2015, 48, 1250-1255.	0.9	18
38	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
39	Adaptive Control for Mechanical Ventilation for Improved Pressure Support. IEEE Transactions on Control Systems Technology, 2021, 29, 180-193.	5.2	18
40	Accuracy aspects in motion feedforward tuning. , 2014, , .		17
41	Experimental estimation of transmissibility matrices for industrial multi-axis vibration isolation systems. Mechanical Systems and Signal Processing, 2018, 107, 469-483.	8.0	17
42	Frequencyâ€domain optimization of fixedâ€structure controllers. International Journal of Robust and Nonlinear Control, 2018, 28, 3784-3805.	3.7	16
43	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
44	Well-Posed Model Uncertainty Estimation by Design of Validation Experiments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1199-1204.	0.4	15
45	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
46	Robust-control-relevant coprime factor identification: A numerically reliable frequency domain approach. , 2008, , .		13
47	Estimating disturbances and model uncertainty in model validation for robust control. , 2008, , .		13
48	Tensor methods for MIMO decoupling and control design using frequency response functions. Mechatronics, 2017, 45, 71-81.	3.3	13
49	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
50	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
51	Inferential motion control: Identification and robust control with unmeasured performance variables. , 2011, , .		12
52	Iterative learning control with basis functions for media positioning in scanning inkjet printers. , 2012, , .		12
53	Iterative Learning Control and feedforward for LPV systems: Applied to a position-dependent motion system. , 2017, , .		12
54	Essential challenges in motion control education. IFAC-PapersOnLine, 2019, 52, 200-205.	0.9	12

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55	Layer-to-Layer Predictive Control of Inkjet 3-D Printing. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1783-1793.	5.8	12
56	Multivariable Repetitive Control: Decentralized Designs With Application to Continuous Media Flow Printing. IEEE/ASME Transactions on Mechatronics, 2020, 25, 294-304.	5.8	12
57	Sequential Multiperiod Repetitive Control Design With Application to Industrial Wide-Format Printing. IEEE/ASME Transactions on Mechatronics, 2020, 25, 770-778.	5.8	12
58	Digital Twins in Mechatronics: From Model-based Control to Predictive Maintenance. , 2021, , .		12
59	Gaussian Process Repetitive Control for Suppressing Spatial Disturbances. IFAC-PapersOnLine, 2020, 53, 1487-1492.	0.9	12
60	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 ETQq0 0 0 rgBT /Overlock 10	0.9	11
61	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>â^ž</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
62	Flexible ILC: Towards a Convex Approach for Non-Causal Rational Basis Functions. IFAC-PapersOnLine, 2017, 50, 12107-12112.	0.9	11
63	Data-driven feedforward tuning using non-causal rational basis functions: With application to an industrial flatbed printer. Mechatronics, 2020, 71, 102424.	3.3	11
64	Learning for Advanced Motion Control. , 2020, , .		11
65	Identification and visualization of robust-control-relevant model sets with application to an industrial wafer stage. , 2010, , .		10
66	Iterative feedforward control: a closed-loop identification problem and a solution. , 2013, , .		10
67	Exploiting additional actuators and sensors for nano-positioning robust motion control. , 2014, , .		10
68	Design Techniques for Multivariable ILC: Application to an Industrial Flatbed Printer. IFAC-PapersOnLine, 2016, 49, 213-221.	0.9	10
69	Estimating structural deformations for inferential control: a disturbance observer approach. IFAC-PapersOnLine, 2016, 49, 642-648.	0.9	10
70	Distributed model predictive control for ink-jet 3D printing. , 2017, , .		10
71	Multi-Layer Spatial Iterative Learning Control for Micro-Additive Manufacturing. IFAC-PapersOnLine, 2019, 52, 97-102.	0.9	10
72	Improving mechanical ventilation for patient care through repetitive control. IFAC-PapersOnLine, 2020, 53, 1415-1420.	0.9	10

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73	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
74	Asymptotically exact direct data-driven multivariable controller tuning. IFAC-PapersOnLine, 2015, 48, 1349-1354.	0.9	9
75	Optimal estimation of rational feedforward controllers: An instrumental variable approach. , 2015, , .		9
76	Enhancing current density profile control in tokamak experiments using iterative learning control. , 2015, , .		9
77	Bi-Orthonormal Polynomial Basis Function Framework With Applications in System Identification. IEEE Transactions on Automatic Control, 2016, 61, 3285-3300.	5.7	9
78	Iterative learning control for intermittently sampled data: Monotonic convergence, design, and applications. Automatica, 2022, 139, 110171.	5.0	9
79	Gaussian process repetitive control: Beyond periodic internal models through kernels. Automatica, 2022, 140, 110273.	5.0	9
80	Identification for robust inferential control. , 2009, , .		8
81	Robust-Control-Relevant Coprime Factor Identification with Application to Model Validation of a Wafer Stage. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1044-1049.	0.4	8
82	On inferential Iterative Learning Control: With example to a printing system. , 2014, , .		8
83	Rational iterative feedforward tuning: Approaches, stable inversion, and experimental comparison. , 2016, , .		8
84	Data-Driven Feedforward Learning using Non-Causal Rational Basis Functions: Application to an Industrial Flatbed Printer. , 2018, , .		8
85	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
86	Motion Control, Mechatronics Design, and Moore's Law. IEEJ Journal of Industry Applications, 2022, 11, 245-255.	1.1	8
87	Uniquely connecting frequency domain representations of given order polynomial Wienerâ€“Hammerstein systems. Automatica, 2012, 48, 2381-2384.	5.0	7
88	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
89	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
90	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

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91	Multivariable repetitive control design framework applied to flatbed printing with continuous media flow. , 2017, , .		7
92	Improving transient learning behavior in model-free inversion-based iterative control with application to a desktop printer. , 2018, , .		7
93	Towards Data-Driven LPV Controller Synthesis Based on Frequency Response Functions. , 2019, , .		7
94	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
95	A robust-control-relevant perspective on model order selection. , 2011, , .		6
96	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
97	Next-generation wafer stage motion control: Connecting system identification and robust control. , 2012, , .		6
98	On the potential of lifted domain feedforward controllers with a periodic sampling sequence. , 2016, , .		6
99	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 ETQq1 1 0.784314 rgBT /Overlock	0.9	6
100	LPTV loop-shaping with application to non-equidistantly sampled precision mechatronics. , 2018, , .		6
101	Beyond Quantization in Iterative Learning Control: Exploiting Time-Varying Time-Stamps. , 2019, , .		6
102	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
103	Frequency Response Function identification for multivariable motion control: Optimal experiment design with element-wise constraints. Mechatronics, 2020, 71, 102440.	3.3	6
104	Multirate State Tracking for Improving Intersample Behavior in Iterative Learning Control. , 2021, , .		6
105	Control for Precision Mechatronics. , 2020, , 1-10.		6
106	Frequency Response Data-Driven LPV Controller Synthesis for MIMO Systems. , 2022, 6, 2264-2269.		6
107	Gaussian Processes for Advanced Motion Control. IEEJ Journal of Industry Applications, 2022, 11, 396-407.	1.1	6
108	Suppressing intersample behavior in Iterative Learning Control. , 2008, , .		5

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109	A robust-control-relevant model validation approach for continuously variable transmission control. , 2010, , .		5
110	Feedforward for multi-rate motion control: Enhanced performance and cost-effectiveness. , 2015, , .		5
111	Accurate frequency response function identification of LPV systems: A 2D local parametric modeling approach. , 2015, , .		5
112	Design and modeling aspects in multivariable iterative learning control. , 2016, , .		5
113	Identification for motion control: Incorporating constraints and numerical considerations. , 2016, , .		5
114	Global Feedforward Control of Spatio-Temporal Mechanical Systems: With Application to a Prototype Wafer Stage. IFAC-PapersOnLine, 2017, 50, 14575-14580.	0.9	5
115	Frequency Response Function Identification of LPV Systems: a Global Approach with Application to Mechanical Systems. IFAC-PapersOnLine, 2018, 51, 108-113.	0.9	5
116	Achieving Perfect Causal Feedforward Control in Presence of Nonminimum-Phase Behavior - Exploiting Additional Actuators and Squaring Down. , 2018, , .		5
117	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
118	Frequency response function identification of periodically scheduled linear parameter-varying systems. Mechanical Systems and Signal Processing, 2021, 148, 107156.	8.0	5
119	Model-Free Learning for Massive MIMO Systems: Stochastic Approximation Adjoint Iterative Learning Control. , 2021, 5, 1946-1951.		5
120	Iterative Feedforward Tuning Approach and Experimental Verification for Nano-Precision Motion Systems. , 2014, , .		5
121	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
122	Experimental evaluation of robust-control-relevance: A confrontation with a next-generation wafer stage. , 2010, , .		4
123	Exploiting rational basis functions in iterative learning control. , 2013, , .		4
124	Enhancing performance through multivariable weighting function design in ℋ<inf>−</inf> loop-shaping: with application to a motion system. , 2013, , .		4
125	Controlling aliased dynamics in motion systems? An identification for sampled-data control approach. International Journal of Control, 2014, 87, 1406-1422.	1.9	4
126	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

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127	Model-based 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	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
146	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
147	Data-Driven LPV Reference Tracking for a Control Moment Gyroscope. IFAC-PapersOnLine, 2019, 52, 134-139.	0.9	3
148	Identifying Thermal Dynamics for Precision Motion Control. IFAC-PapersOnLine, 2019, 52, 73-78.	0.9	3
149	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
150	Commutation Angle Iterative Learning Control: Enhancing Piezo-Stepper Actuator Waveforms. IFAC-PapersOnLine, 2019, 52, 579-584.	0.9	3
151	Feedforward Motion Control: From Batch-to-Batch Learning to Online Parameter Estimation. , 2019, , .		3
152	Frequency-Domain Data-Driven Controller Synthesis for Unstable LPV Systems. IFAC-PapersOnLine, 2021, 54, 109-115.	0.9	3
153	A Closed-Loop Perspective on Fault Detection for Precision Motion Control: With Application to an Overactuated System. , 2021, , .		3
154	Closed-loop Aspects in MIMO Fault Diagnosis with Application to Precision Mechatronics. , 2021, , .		3
155	Direct data-driven design of LPV controllers with soft performance specifications. Journal of the Franklin Institute, 2022, 359, 816-836.	3.4	3
156	Iterative learning control with discreteâ€time nonlinear nonminimum phase models via stable inversion. International Journal of Robust and Nonlinear Control, 0, , .	3.7	3
157	Commutation-Angle Iterative Learning Control for Intermittent Data: Enhancing Piezo-Stepper Actuator Waveforms. IFAC-PapersOnLine, 2020, 53, 8585-8590.	0.9	3
158	On the Role of Models in Learning Control: Actor-Critic Iterative Learning Control. IFAC-PapersOnLine, 2020, 53, 1450-1455.	0.9	3
159	On Frequency Response Function Identification for Advanced Motion Control. , 2020, , .		3
160	Identification for robust control of complex systems: algorithm and motion application. , 2015, , 101-124.		3
161	Aliasing of Resonance Phenomena in Sampled-Data Feedback Control Design: Hazards, Modeling, and a Solution. Proceedings of the American Control Conference, 2007, , .	0.0	2
162	Bi-orthonormal basis functions for improved frequency-domain system identification. , 2012, , .		2

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163	Aspects in inferential Iterative Learning Control: A 2D systems analysis. , 2014, , .		2
164	Introduction to the special issue on control of high-precision motion systems. Mechatronics, 2014, 24, 547-548.	3.3	2
165	Data-driven H<inf>âˆž</inf>-norm estimation via expert advice. , 2017, , .		2
166	An approach to stable inversion of LPTV systems with application to a position-dependent motion system. , 2017, , .		2
167	Accommodating Trial-Varying Tasks in Iterative Learning Control for LPV Systems, Applied to Printer Sheet Positioning. , 2018, , .		2
168	Intermittent Sampling in Iterative Learning Control: a Monotonically-Convergent Gradient-Descent Approach with Application to Time Stamping. , 2019, , .		2
169	Multivariable Learning Using Frequency Response Data: A Robust Iterative Inversion-Based Control Approach with Application. , 2019, , .		2
170	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
171	Model Order Selection in Robust-Control-Relevant System Identification. IFAC-PapersOnLine, 2021, 54, 1-6.	0.9	2
172	Accurate $mathcal{H}_{infty}$-Norm Estimation via Finite-Frequency Norms of Local Parametric Models. , 2021, , .		2
173	Thermo-Mechanical Behavior in Precision Motion Control: Unified Framework for Fast and Accurate FRF Identification. , 2018, , .		2
174	Flipped halfwave: improved modeling of spontaneous breathing effort. IFAC-PapersOnLine, 2021, 54, 175-179.	0.9	2
175	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
176	Low-order system identification and optimal control of intersample behavior in ILC. , 2009, , .		1
177	Reading of cracked optical discs using Iterative Learning Control. , 2009, , .		1
178	Experimental validation of a truck roll model using asynchronous measurements with low signal-to-noise ratios. , 2010, , .		1
179	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
180	Iteratively learning the ℌ<inf>∞</inf>-norm of multivariable systems applied to model-error-modeling of a vibration isolation system. , 2013, , .		1

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181	IFT-LPV: Data-Based Tuning of Fixed Structure Controllers for LPV Systems. IFAC-PapersOnLine, 2015, 48, 721-726.	0.9	1
182	Resource Efficient ILC: Enabling Large Tasks on an Industrial Position-Dependent Flatbed Printer. IFAC-PapersOnLine, 2016, 49, 567-574.	0.9	1
183	Evaluating performance of multivariable vibration isolators: A frequency domain identification approach applied to an industrial AVIS. , 2017, , .		1
184	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
185	Numerically Reliable Identification of Fast Sampled Systems: A Novel Î´-Domain Data-Dependent Orthonormal Polynomial Approach. , 2018, , .		1
186	Kernel-based regression of non-causal systems for inverse model feedforward estimation. , 2018, , .		1
187	Online hose calibration for pressure control in mechanical ventilation. , 2019, , .		1
188	From Batch-to-Batch to Online Learning Control: Experimental Motion Control Case Study. IFAC-PapersOnLine, 2019, 52, 406-411.	0.9	1
189	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
190	Suppressing spatially distributed disturbances by exploiting additional sensors and actuators in inferential motion control. , 2021, , .		1
191	Temperature-Dependent Modeling of Thermoelectric Elements. IFAC-PapersOnLine, 2020, 53, 8625-8630.	0.9	1
192	Recovering Data from Cracked Optical Discs using Hankel Iterative Learning Control. , 2009, , 147-166.		1
193	Fast extremum seeking using multisine dither and online complex curve fitting. IFAC-PapersOnLine, 2020, 53, 5362-5367.	0.9	1
194	Monotonically Convergent Iterative Learning Control for Piecewise Affine Systems. IFAC-PapersOnLine, 2020, 53, 1474-1479.	0.9	1
195	Linear repetitive control for a nonlinear mechanical ventilation system using feedback linearization. , 2021, , .		1
196	A Fast Smoothing-Based Algorithm to Generate l âˆž -Norm Constrained Signals for Multivariable Experiment Design. , 2022, 6, 1784-1789.		1
197	Gaussian Process Position-Dependent Feedforward: With Application to a Wire Bonder. , 2022, , .		1
198	Peak Amplitude-Constrained Experiment Design for FRF Identification of MIMO Motion Systems. , 2022, , .		1

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199	A Gaussian Process Approach to Multiple Internal Models in Repetitive Control. , 2022, , .		1
200	Conjugate Gradient MIMO Iterative Learning Control Using Data-Driven Stochastic Gradients. , 2021, , .		1
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