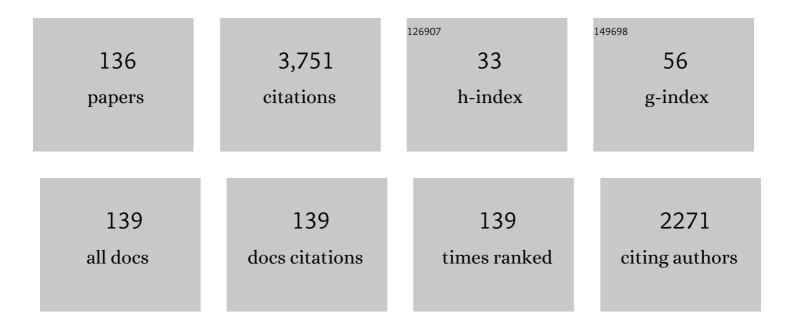
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9207753/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Nonlinear Transient Stability Analysis of Phased-Locked Loop-Based Grid-Following Voltage-Source Converters Using Lyapunov's Direct Method. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2699-2709.	5.4	51
2	Stabilization and Performance Improvement of Power-Hardware-in-the-Loop Test Using a Robust Data-Driven Method. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	3
3	Small-Signal Synchronization Stability Enhancement of Grid-Following Inverters via a Feedback Linearization Controller. IEEE Transactions on Power Delivery, 2022, 37, 4335-4344.	4.3	8
4	Data-Driven Distributed Online Learning Control for Islanded Microgrids. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 194-204.	3.6	13
5	Linear Parameter-Varying Control of a Power-Synchronized Grid-Following Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2547-2558.	5.4	12
6	Closed-loop data-driven modeling and distributed control for islanded microgrids with input constraints. Control Engineering Practice, 2022, 126, 105251.	5.5	4
7	Data-Driven Distributed Combined Primary and Secondary Control in Microgrids. IEEE Transactions on Control Systems Technology, 2021, 29, 1340-1347.	5.2	20
8	Grid-Supporting Battery Energy Storage Systems in Islanded Microgrids: A Data-Driven Control Approach. IEEE Transactions on Sustainable Energy, 2021, 12, 834-846.	8.8	31
9	Data-Driven LPV Controller Design for Islanded Microgrids. IFAC-PapersOnLine, 2021, 54, 433-438.	0.9	4
10	Data-driven distributed frequency/voltage and power sharing control for islanded microgrids. , 2020, , .		2
11	Data-Driven Passivity-Based Current Controller Design for Power-Electronic Converters of Traction Systems. , 2020, , .		1
12	Largeâ€Range HSâ€AFM Imaging of DNA Selfâ€Assembly through In Situ Dataâ€Driven Control. Small Methods, 2019, 3, 1900031.	8.6	20
13	Data-Driven Distributed Reactive Power Sharing in Microgrids. , 2019, , .		1
14	Convex Optimization-Based Control Design for Parallel Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2019, 34, 6048-6061.	7.9	15
15	Robust control of systems with sector nonlinearities via convex optimization: A dataâ€driven approach. International Journal of Robust and Nonlinear Control, 2019, 29, 1361-1376.	3.7	6
16	A data-driven approach to model-reference control with applications to particle accelerator power converters. Control Engineering Practice, 2019, 83, 11-20.	5.5	13
17	Decentralized and Distributed Transient Control for Microgrids. IEEE Transactions on Control Systems Technology, 2019, 27, 311-322.	5.2	27
18	A Robust Data-Driven Controller Design Methodology With Applications to Particle Accelerator Power Converters. IEEE Transactions on Control Systems Technology, 2019, 27, 814-821.	5.2	10

#	Article	IF	CITATIONS
19	Robust <i>H</i> _{<i>â^ž</i>} controller design using frequencyâ€domain data via convex optimization. International Journal of Robust and Nonlinear Control, 2018, 28, 3766-3783.	3.7	31
20	Plug-and-Play Robust Voltage Control of DC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 6886-6896.	9.0	104
21	A Data-Driven Method for Computing Fixed-Structure Low-Order Controllers With H <inf>â^ž</inf> Performance. , 2018, , .		2
22	A Data-Driven Fixed-Structure Control Design Method with Application to a 2-DOF Gyroscope. , 2018, , .		5
23	Fixed-order loop shaping robust controller design for parametric models to damp inter-area oscillations. International Journal of Electrical Power and Energy Systems, 2017, 88, 164-174.	5.5	9
24	A Robust Active Damping Control Strategy for an \$LCL\$ -Based Grid-Connected DG Unit. IEEE Transactions on Industrial Electronics, 2017, 64, 8055-8065.	7.9	36
25	A data-driven approach to robust control of multivariable systems by convex optimization. Automatica, 2017, 85, 227-233.	5.0	75
26	Linear Parameter-Varying Kalman Filter for angular velocity estimation of a reaction sphere actuator for satellite attitude control. , 2017, , .		3
27	Plug-and-Play Voltage Stabilization in Inverter-Interfaced Microgrids via a Robust Control Strategy. IEEE Transactions on Control Systems Technology, 2017, 25, 781-791.	5.2	87
28	A data-driven approach to power converter control via convex optimization. , 2017, , .		2
29	Advanced Droop Control in Islanded Microgrids Using Dynamic Phasor Models. IFAC-PapersOnLine, 2017, 50, 6642-6647.	0.9	2
30	Data-Driven Controller Design for Atomic-Force Microscopy. IFAC-PapersOnLine, 2017, 50, 10437-10442.	0.9	10
31	Robust distributed averaging frequency control of inverter-based microgrids. , 2016, , .		4
32	High performance control of a Corner Cube Reflector by a frequency-domain data-driven robust control method. , 2016, , .		2
33	Design of a fixed-order robust controller using loop shaping method for damping inter-area oscillations in power systems. , 2016, , .		3
34	Fixed-structure LPV discrete-time controller design with induced <i>l</i> ₂ -norm and H2 performance. International Journal of Control, 2016, 89, 494-505.	1.9	22
35	Robust Smith Predictor Design for Time-Delay Systems with \$\$H_{infty }\$\$ H â^ž Performance. Advances in Delays and Dynamics, 2016, , 287-307.	0.4	0
36	Fixed-order Linear Parameter Varying Controller Design for a 2DOF Gyroscope**This research work is _nancially supported by the Swiss National Science Foundation under Grant No. 200021-121749 IFAC-PapersOnLine, 2015, 48, 230-235.	0.9	1

#	Article	IF	CITATIONS
37	A data-driven approach in designing RST controllers with H <inf>â^ž</inf> performance via convex optimization. , 2015, , .		1
38	Design of a switching controller for adaptive disturbance attenuation with guaranteed stability. , 2015, , .		0
39	Fixed-order SISO controller design for H <inf>â^ž</inf> loop shaping method using frequency responses. , 2015, , .		5
40	Sensor Placement in LTI Systems with Polytopic Uncertainty via Convex Optimizationâ^—â^—This research work is financially supported by the Swiss National Science Foundation under Grant No. 200020-130528 IFAC-PapersOnLine, 2015, 48, 13-18.	0.9	3
41	Fixed-order control of LTI systems subject to polytopic uncertainty via the concept of Strictly Positive Realness. , 2015, , .		6
42	Fixed-order decentralized/distributed control of islanded inverter-interfaced microgrids. Control Engineering Practice, 2015, 45, 174-193.	5.5	35
43	Fixed-structure â,,‹2 controller design for polytopic systems via LMIs. Optimal Control Applications and Methods, 2015, 36, 794-809.	2.1	8
44	H <inf>∞</inf> smith predictor design for time-delayed MIMO systems via convex optimization. , 2014, , .		0
45	Multivariable Control of Single-Inductor Dual-Output Buck Converters. IEEE Transactions on Power Electronics, 2014, 29, 2061-2070.	7.9	115
46	Enhancing statistical performance of data-driven controller tuning via -regularization. Automatica, 2014, 50, 1514-1520.	5.0	31
47	Improved methodology and set-point design for diagnosis of model-plant mismatch in control loops using plant-model ratio. Journal of Process Control, 2014, 24, 1720-1732.	3.3	16
48	A comparison of modelâ€based and dataâ€driven controller tuning. International Journal of Adaptive Control and Signal Processing, 2014, 28, 882-897.	4.1	79
49	Fixed-structure Sparse Control of Interconnected Systems with Polytopic Uncertainty. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2588-2593.	0.4	2
50	Robust Fixed-order Discrete-time LPV Controller Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6914-6919.	0.4	6
51	Robust H â^ž Controller Design Using Frequency-Domain Data. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4921-4926.	0.4	1
52	Optimal input design for direct data-driven tuning of model-reference controllers. Automatica, 2013, 49, 1874-1882.	5.0	50
53	Hâ^ž gain-scheduled controller design for rejection of time-varying narrow-band disturbances applied to a benchmark problem. European Journal of Control, 2013, 19, 279-288.	2.6	28
54	A Data-Driven Approach to Mixed-Sensitivity Control With Application to an Active Suspension System. IEEE Transactions on Industrial Informatics, 2013, 9, 2293-2300.	11.3	60

#	Article	IF	CITATIONS
55	A Multivariable Design Methodology for Voltage Control of a Single-DG-Unit Microgrid. IEEE Transactions on Industrial Informatics, 2013, 9, 589-599.	11.3	62
56	Multivariable control of Single-Inductor Dual-Output buck converters. , 2013, , .		2
57	Decoupled \$dq\$-Current Control of Grid-Tied Voltage Source Converters Using Nonparametric Models. IEEE Transactions on Industrial Electronics, 2013, 60, 1356-1366.	7.9	80
58	On L <inf>2</inf> -regularization for Virtual Reference Feedback Tuning. , 2013, , .		0
59	H <inf>∞</inf> gain-scheduled controller design for rejection of time-varying disturbances with application to an active suspension system. , 2013, , .		4
60	An LMI formulation of fixed-order H <inf>∞</inf> and H <inf>2</inf> controller design for discrete-time systems with polytopic uncertainty. , 2013, , .		13
61	Direct data-driven design of sparse controllers. , 2013, , .		1
62	Frequency-domain robust control toolbox. , 2013, , .		22
63	Robust Smith Predictor Design for Time-Delay Systems with Hâ^ž Performance. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 102-107.	0.4	14
64	Fixed-order Controller Design for State Space Polytopic Systems by Convex Optimization1 1This research work is financially supported by the Swiss National Science Foundation under Grant No. 200020-130528 IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 683-688.	0.4	6
65	Fixed-order H <inf>â^ž</inf> and H <inf>2</inf> controller design for continuous-time polytopic systems: An LMI-based approach. , 2013, , .		4
66	Model-based and data-driven model-reference control: A comparative analysis. , 2013, , .		2
67	Fixed-order LPV Controller Design for LPV Systems by Convex Optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 677-682.	0.4	3
68	Robust and Gain-Scheduled PID Controller Design for Condensing Boilers by Linear Programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 335-340.	0.4	14
69	On input design for direct data-driven controller tuning*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1466-1471.	0.4	1
70	A Toolbox for Robust PID Controller Tuning Using Convex Optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 158-163.	0.4	16
71	Fixed-order LPV controller design for rejection of a sinusoidal disturbance with time-varying frequency. , 2012, , .		12
72	A solution to the flexible transmission benchmark by convex optimization. JVC/Journal of Vibration and Control, 2012, 18, 964-972.	2.6	2

#	Article	IF	CITATIONS
73	Introduction to Adaptive Control. Communications and Control Engineering, 2011, , 1-33.	1.6	14
74	Robust Parameter Estimation. Communications and Control Engineering, 2011, , 329-357.	1.6	2
75	Indirect Adaptive Control. Communications and Control Engineering, 2011, , 409-456.	1.6	1
76	Adaptive Regulation—Rejection of Unknown Disturbances. Communications and Control Engineering, 2011, , 477-497.	1.6	5
77	Adaptive Feedforward Compensation of Disturbances. Communications and Control Engineering, 2011, , 499-521.	1.6	0
78	Adaptive Control. Communications and Control Engineering, 2011, , .	1.6	205
79	Fixed-order <i>H</i> _{â^ž} controller design for systems with ellipsoidal parametric uncertainty. International Journal of Control, 2011, 84, 57-65.	1.9	20
80	RST Controller Design by Convex Optimization Using Frequency-Domain Data. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11429-11434.	0.4	5
81	Direct data-driven H2 – Hâ^ž loop-shaping. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11423-11428.	0.4	3
82	Dataâ€driven model reference control with asymptotically guaranteed stability. International Journal of Adaptive Control and Signal Processing, 2011, 25, 331-351.	4.1	115
83	On identification methods for direct dataâ€driven controller tuning. International Journal of Adaptive Control and Signal Processing, 2011, 25, 448-465.	4.1	30
84	Robust gain-scheduled blending control of raw-mix quality in cement industries. , 2011, , .		2
85	Dataâ€driven tuning of linear parameterâ€varying precompensators. International Journal of Adaptive Control and Signal Processing, 2010, 24, 592-609.	4.1	4
86	Fixed-order <mml:math <br="" altimg="si2.gif" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>a^žcontroller design for nonparametric models by convex optimization. Automatica, 2010, 46, 1388-1394.</mml:mi></mml:mrow></mml:msub></mml:math>	۱ml:500 <td>nml:mrow></td>	nml:mrow>
87	Hâ^ž Controller design for spectral MIMO models by convex optimization. Journal of Process Control, 2010, 20, 1175-1182.	3.3	75
88	Robust controller design by convex optimization based on finite frequency samples of spectral models. , 2010, , .		5
89	Non-iterative data-driven controller tuning with guaranteed stability: Application to direct-drive pick-and-place robot. , 2010, , .		8
90	Linear Parameter-Varying Iterative Learning Control With Application to a Linear Motor System. IEEE/ASME Transactions on Mechatronics, 2010, 15, 412-420.	5.8	71

#	Article	IF	CITATIONS
91	\$H_{infty}\$ Controller Design Using an Alternative to Youla Parameterization \$ \$. IEEE Transactions on Automatic Control, 2010, 55, 2119-2123.	5.7	27
92	Iterative Learning Control Using Stochastic Approximation Theory with Application to a Mechatronic System. Lecture Notes in Control and Information Sciences, 2010, , 49-64.	1.0	0
93	An alternative to the Youla parameterization for H <inf>â^ž</inf> controller design. , 2009, , .		Ο
94	Linear Parameter Varying Iterative Learning Control. , 2009, , .		0
95	Data-driven controller validation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1050-1055.	0.4	9
96	Closed-loop identification of multivariable systems: With or without excitation of all references?. Automatica, 2008, 44, 2048-2056.	5.0	18
97	Fixed-Order Controller Design for Polytopic Systems Using LMIs. IEEE Transactions on Automatic Control, 2008, 53, 428-434.	5.7	51
98	A statistical analysis of certain iterative learning control algorithms. International Journal of Control, 2008, 81, 156-166.	1.9	119
99	Robust fixed-order H _{â^ž} controller design for spectral models by convex optimization. , 2008, , .		16
100	Model-Free Precompensator Tuning Based on the Correlation Approach. IEEE Transactions on Control Systems Technology, 2008, 16, 1013-1020.	5.2	25
101	Frequency domain controller design by linear programming guaranteeing quadratic stability. , 2008, , .		8
102	Data-driven controller tuning with integrated stability constraint. , 2008, , .		22
103	Data-driven precompensator tuning for linear parameter varying systems. , 2008, , .		1
104	Fixed-Order Controller Design for Polytopic Systems Using Rank Deficiency in a Sylvester Matrix. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 4982-4987.	0.4	2
105	On the Consistency of Certain Identification Methods for Linear Parameter Varying Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 4018-4023.	0.4	41
106	Robust proportional integral derivative controller tuning with specifications on the infinity-norm of sensitivity functions. IET Control Theory and Applications, 2007, 1, 263-272.	2.1	17
107	Robust loop shaping controller design for spectral models by quadratic programming. , 2007, , .		6

Data-driven estimation of the infinity norm of a dynamical system. , 2007, , .

18

#	Article	IF	CITATIONS
109	Non-iterative data-driven controller tuning using the correlation approach. , 2007, , .		94
110	Gain-scheduled controller design by linear programming. , 2007, , .		9
111	Robust control of polytopic systems by convex optimization. Automatica, 2007, 43, 1395-1402.	5.0	67
112	Correlation-based tuning of decoupling multivariable controllers. Automatica, 2007, 43, 1481-1494.	5.0	61
113	Robust controller design by linear programming with application to a double-axis positioning system. Control Engineering Practice, 2007, 15, 197-208.	5.5	65
114	Data-Driven Controller Tuning Using Frequency Domain Specifications. Industrial & Engineering Chemistry Research, 2006, 45, 4032-4042.	3.7	17
115	Identification of multi-input systems: variance analysis and input design issues. Automatica, 2006, 42, 559-572.	5.0	46
116	A Comparison of Iterative Learning Control Algorithms with Application to a Linear Motor System. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	2
117	Iterative correlation-based controller tuning. International Journal of Adaptive Control and Signal Processing, 2004, 18, 645-664.	4.1	152
118	Iterative correlation-based controller tuning with application to a magnetic suspension system. Control Engineering Practice, 2003, 11, 1069-1078.	5.5	49
119	Control of an Active Suspension System as a Benchmark for Design and Optimisation of Restricted-Complexity Controllers. European Journal of Control, 2003, 9, 3-12.	2.6	20
120	Correlation-Based Tuning of a Restricted-Complexity Controller for an Active Suspension System. European Journal of Control, 2003, 9, 77-83.	2.6	17
121	PID controller tuning using Bode's integrals. IEEE Transactions on Control Systems Technology, 2003, 11, 812-821.	5.2	64
122	PID controller design using Bode's integrals. , 2002, , .		9
123	A Unified Approach to Model Estimation and Controller Reduction (Duality and Coherence). European Journal of Control, 2002, 8, 561-572.	2.6	8
124	Effects of the design parameters of multimodel adaptive control on the performance of a flexible transmission system. International Journal of Adaptive Control and Signal Processing, 2001, 15, 335-352.	4.1	10
125	Direct controller order reduction by identification in closed loop. Automatica, 2001, 37, 1689-1702.	5.0	45
126	Controller Order Reduction by Direct Closed Loop Identification (Output Matching). IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 291-296.	0.4	7

8

#	Article	IF	CITATIONS
127	Robust adaptive control of a flexible transmission system using multiple models. IEEE Transactions on Control Systems Technology, 2000, 8, 321-331.	5.2	66
128	Discussion on: â€~Analysis of Closed-Loop Identification with a Tailor-Made Parameterization' by E.T. van Donkelaar and P.M.J. Van den Hof. European Journal of Control, 2000, 6, 63-67.	2.6	1
129	A recursive algorithm for ARMAX model identification in closed loop. IEEE Transactions on Automatic Control, 1999, 44, 840-843.	5.7	21
130	Robust digital control using pole placement with sensitivity function shaping method. International Journal of Robust and Nonlinear Control, 1998, 8, 191-210.	3.7	39
131	Comparison of the closed-loop identification methods in terms of the bias distribution. Systems and Control Letters, 1998, 34, 159-167.	2.3	34
132	Recursive algorithms for identification in closed loop: A unified approach and evaluation. Automatica, 1997, 33, 1499-1523.	5.0	115
133	An output error recursive algorithm for unbiased identification in closed loop. Automatica, 1997, 33, 933-938.	5.0	125
134	A Flexible Transmission System as a Benchmark for Robust Digital Control*. European Journal of Control, 1995, 1, 77-96.	2.6	159
135	Robust Digital Control of Flexible Transmissions Using the Combined Pole Placement/Sensitivity Function Shaping Method. European Journal of Control, 1995, 1, 122-133.	2.6	25

136 Correlation-Based Tuning of Linear Multivariable Decoupling Controllers. , 0, , .