

# Diego Eckhard

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

473  
citations

840728

11  
h-index

713444

21  
g-index

40  
all docs

40  
docs citations

40  
times ranked

320  
citing authors

#	ARTICLE	IF	CITATIONS
1	Virtual Reference Feedback Tuning for non-minimum phase plants. <i>Automatica</i> , 2011, 47, 1778-1784.	5.0	88
2	Data-Driven Controller Design. <i>Communications and Control Engineering</i> , 2012, , .	1.6	62
3	Unbiased MIMO VRFT with application to process control. <i>Journal of Process Control</i> , 2016, 39, 35-49.	3.3	50
4	Data-driven model reference control design by prediction error identification. <i>Journal of the Franklin Institute</i> , 2017, 354, 2628-2647.	3.4	48
5	Dynamic output feedback stabilization for systems with sector-bounded nonlinearities and saturating actuators. <i>Journal of the Franklin Institute</i> , 2013, 350, 464-484.	3.4	41
6	Finite $\hat{\alpha},^2$ gain and internal stabilisation of linear systems subject to actuator and sensor saturations. <i>IET Control Theory and Applications</i> , 2009, 3, 799-812.	2.1	21
7	Pitch and Roll control of a Quadcopter using Cascade Iterative Feedback Tuning. <i>IFAC-PapersOnLine</i> , 2016, 49, 30-35.	0.9	18
8	Virtual disturbance feedback tuning. <i>IFAC Journal of Systems and Control</i> , 2018, 3, 23-29.	1.7	18
9	Design of time-varying controllers for discrete-time linear systems with input saturation. <i>IET Control Theory and Applications</i> , 2007, 1, 155-162.	2.1	17
10	Input design as a tool to improve the convergence of PEM. <i>Automatica</i> , 2013, 49, 3282-3291.	5.0	12
11	Robust convergence of the steepest descent method for data-based control. <i>International Journal of Systems Science</i> , 2012, 43, 1969-1975.	5.5	11
12	Optimizing the convergence of data-based controller tuning. , 2009, , .		11
13	Iterative feedback tuning for cascade systems. , 2016, , .		8
14	Cost function shaping of the output error criterion. <i>Automatica</i> , 2017, 76, 53-60.	5.0	7
15	pyvrft: A Python package for the Virtual Reference Feedback Tuning, a direct data-driven control method. <i>SoftwareX</i> , 2020, 11, 100383.	2.6	7
16	Optimizing the convergence of data-based controller tuning. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2012, 226, 563-574.	1.0	6
17	Extension of the Correlation-based Tuning Method for Load Disturbance Rejection. , 2019, , .		6
18	Data-based controller tuning: Improving the convergence rate. , 2010, , .		5

#	ARTICLE	IF	CITATIONS
19	Identifiability Analysis and Prediction Error Identification of Anaerobic Batch Bioreactors. Journal of Control, Automation and Electrical Systems, 2014, 25, 438-447.	2.0	5
20	Comparing MIMO Process Control Methods on a Pilot Plant. Journal of Control, Automation and Electrical Systems, 2018, 29, 411-425.	2.0	5
21	Model Reference Control Design by Prediction Error Identification*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1478-1483.	0.4	4
22	On the convergence of the Prediction Error Method to its global minimum*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 698-703.	0.4	4
23	Automatic RF power adjustment for WirelessHART field devices. , 2014, , .		3
24	Disturbance observer and nonlinear damping control for fast tracking quadrotor vehicles. , 2016, , .		3
25	Multivariable Correlation-based Tuning for Load Disturbance Rejection. IFAC-PapersOnLine, 2020, 53, 3977-3982.	0.9	3
26	On the global convergence of identification of output error models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9058-9063.	0.4	2
27	Mean-squared error experiment design for linear regression models*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1629-1634.	0.4	2
28	Application of Virtual Reference Feedback Tuning to a non-minimum phase pilot plant. , 2016, , .		2
29	Data-driven control design for load disturbance rejection by prediction error identification. , 2021, , .		2
30	Iterative Optimization. Communications and Control Engineering, 2012, , 69-88.	1.6	1
31	Data-driven Correlation Approach Applied to Load Disturbance Rejection in a Thermal Process. , 2021, , .		1
32	Bluetooth Enabled Data Collector for Wireless Sensor Networks. , 2015, , .		0
33	PI-based Transmission Power Control for WirelessHART Field Devices**The authors thank CNPq, Capes, Petrobras, and Finep for projects support and funding.. IFAC-PapersOnLine, 2016, 49, 343-348.	0.9	0
34	Modified MIMO Resonant Controller robust to period variation and parametric uncertainty. , 2016, , .		0
35	Contactless battery charger controller for wireless sensor node. , 2016, , .		0
36	PI-based and anti-windup transmission power control for WirelessHART field devices. IET Wireless Sensor Systems, 2020, 10, 137-144.	1.7	0

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37	A neural network strategy applied in autonomous mobile localization. , 2009, , .		0
38	Convergence to the Globally Optimal Controller. Communications and Control Engineering, 2012, , 89-117.	1.6	0
39	AplicaÃ§Ã£o do mÃ©todo VRFT no projeto de controle de quadricÃ³pteros. , 0, , .		0
40	AnÃ¡lise do uso de modelos discretizados para identificaÃ§Ã£o de modelos de biorreatores anaerÃ³bicos. , 0, , .		0