Raffaele Romagnoli

List of Publications by Year
in descending order

39 papers	269 citations	1162889 8 h-index	1199470 12 g-index
39 all docs	39 docs citations	39 times ranked	149 citing authors

#	ARTICLE	IF	CITATIONS
1	A Linear Programming Approach to Computing Safe Sets for Software Rejuvenation. , 2022, 6, 1214-1219.		6
2	Faster and Healthier Charging of Lithium-Ion Batteries via Constrained Feedback Control. IEEE Transactions on Control Systems Technology, 2022, 30, 1990-2001.	3.2	7
3	A New Approach to Model Predictive Control Based on Two Degrees of Freedom Control and B-Splines Input Shaping. IEEE Transactions on Automatic Control, 2021, 66, 2770-2777.	3.6	0
4	Low-Complexity Fast Charging Strategies Based on Explicit Reference Governors for Li-Ion Battery Cells. IEEE Transactions on Control Systems Technology, 2021, 29, 1597-1608.	3.2	4
5	Resilient Control in the Presence of Man-in-the-Middle Attacks. , 2021, , .		2
6	Secure Networked Control for Decentralized Systems via Software Rejuvenation. , 2020, , .		2
7	Robust Software Rejuvenation for CPS with State Estimation and Disturbances. , 2020, , .		4
8	MPC strategies based on the equivalent hydraulic model for the fast charge of commercial Li-ion batteries. Computers and Chemical Engineering, 2020, 141, 107010.	2.0	9
9	A New Reference Governor Strategy For Union of Linear Constraints. IFAC-PapersOnLine, 2020, 53, 5499-5504.	0.5	1
10	Software Rejuvenation Under Persistent Attacks in Constrained Environments. IFAC-PapersOnLine, 2020, 53, 4088-4094.	0.5	9
11	Safety and Liveness of Software Rejuvenation for Secure Tracking Control. , 2019, , .		7
12	A feedback charge strategy for Li-ion battery cells based on Reference Governor. Journal of Process Control, 2019, 83, 164-176.	1.7	18
13	Secure Networked Control via Software Rejuvenation. , 2019, , .		11
14	A Model Inversion Based Watermark for Replay Attack Detection with Output Tracking. , 2019, , .		14
15	A general framework for approximated model stable inversion. Automatica, 2019, 101, 182-189.	3.0	15
16	Simultaneous Achievement of Open and Closed Loop Diagonal Dominance Through Constant Feedback. Asian Journal of Control, 2019, 21, 686-701.	1.9	2
17	Design of Software Rejuvenation for CPS Security Using Invariant Sets. , 2019, , .		24
18	A B-spline-based pseudo-inversion approach for constrained optimal output transition. International Journal of Control, 2018, 91, 2332-2344.	1.2	1

#	Article	IF	Citations
19	Constrained Optimal End-Effector Positioning Using Pseudo-Inversion and B-Splines: Numerical Simulation on the One Link Flexible Manipulator Linearized Model. , 2018, , .		0
20	Constrained Transient Optimization Using B-Splines Functions as Control Inputs. , 2018, , .		0
21	Modeling and quadratic stabilization of a class of linear uncertain time‐varying systems. International Journal of Robust and Nonlinear Control, 2017, 27, 1810-1825.	2.1	3
22	A B-splines based feedforward action for constrained optimization of PID controllers performance. IFAC-PapersOnLine, 2017, 50, 1811-1816.	0.5	1
23	Gain margin based conditions for easy simultaneous achievement of open and closed loop diagonal dominance under unstructured uncertainties. IFAC-PapersOnLine, 2017, 50, 3660-3667.	0.5	1
24	Computationally-efficient constrained control of the state-of-charge of a Li-ion battery cell. , 2017, , .		12
25	Reference-tracking feedforward control design for linear dynamical systems through signal decomposition. , 2017, , .		9
26	Control of the State-of-Charge of a Li-ion Battery Cell via Reference Governor * *This work is performed in the framework of the BATWAL project financed by the Walloon region (Belgium).This research has been funded by the Mandats dâ€™Impulsion Scientific "Optimization-free Control of Nonlinear Systems subject to Constraints" of the Fonds de la Recherche Scientifique (FNRS), Ref. F452617F.This research has been funded by Fonds pour la Formation Ã la Recherche dans lâ€™Industrie et dans lâ€™Agriculture (FRIA) of th. IFAC-PapersOnLine, 2017, 50, 13747-13753.	0.5	7
27	B-splines and pseudo-inversion as tools for handling saturation constraints in the optimal set-point regulation. , 2017, , .		1
28	Optimal transient performance under output set‐point reset. International Journal of Robust and Nonlinear Control, 2016, 26, 2788-2806.	2.1	15
29	The quadratic stabilization problem for LTV plants with arbitrary mode-switch dynamics and non uniformly bounded parametric uncertainties. , 2015, , .		1
30	Spline Based Pseudo‐Inversion of Sampled Data Non‐Minimum Phase Systems for an Almost Exact Output Tracking. Asian Journal of Control, 2015, 17, 1866-1879.	1.9	10
31	BMI-Based Stabilization of Linear Uncertain Plants With Polynomially Time Varying Parameters. IEEE Transactions on Automatic Control, 2015, 60, 2283-2288.	3.6	4
32	A mixed numericalâ€"analytical stable pseudoâ€inversion method aimed at attaining an almost exact tracking. International Journal of Robust and Nonlinear Control, 2015, 25, 809-823.	2.1	28
33	Output-transition optimization through a multi-objective least square procedure. , 2014, , .		4
34	Accurate output tracking for nonminimum phase nonhyperbolic and near nonhyperbolic systems. European Journal of Control, 2014, 20, 292-300.	1.6	21
35	Robust stabilization of linear uncertain plants with polynomially time varying parameters. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11734-11739.	0.4	2
36	A least-squares based pseudoinversion approach for non hyperbolic linear systems. , 2014, , .		0

#	Article	IF	Citations
37	A spline-based technique for optimal set point regulation through pseudo-inversion of nonminimum phase linear systems. , 2013, , .		4
38	Almost perfect tracking through mixed numerical-analytical stable pseudo-inversion of non minimum phase plants. , 2013, , .		10
39	An iterative LMI scheme for output regulation of continuous-time LPV systems with inexactly measured parameters. , 2012, , .		0