

Aurelio Piazzzi

List of Publications by Year in descending order

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46
papers

767
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46
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docs citations

46
times ranked

399
citing authors

#	ARTICLE	IF	CITATIONS
1	η^3 -Splines for the Smooth Path Generation of Wheeled Mobile Robots. , 2007, 23, 1089-1095.		101
2	Optimal noncausal set-point regulation of scalar systems. Automatica, 2001, 37, 121-127.	5.0	89
3	Global minimum-time trajectory planning of mechanical manipulators using interval analysis. International Journal of Control, 1998, 71, 631-652.	1.9	75
4	Path Generation Using η^4 -Splines for a Truck and Trailer Vehicle. IEEE Transactions on Automation Science and Engineering, 2014, 11, 187-203.	5.2	55
5	Using stable input-output inversion for minimum-time feedforward constrained regulation of scalar systems. Automatica, 2005, 41, 305-313.	5.0	51
6	Robust set-point constrained regulation via dynamic inversion. International Journal of Robust and Nonlinear Control, 2001, 11, 1-22.	3.7	47
7	Minimum-time trajectory planning of mechanical manipulators under dynamic constraints. International Journal of Control, 2002, 75, 967-980.	1.9	45
8	A noncausal approach for PID control. Journal of Process Control, 2006, 16, 831-843.	3.3	34
9	An optimal complexity algorithm for minimum-time velocity planning. Systems and Control Letters, 2017, 103, 50-57.	2.3	26
10	A hybrid algorithm for infinitely constrained optimization. International Journal of Systems Science, 2001, 32, 91-102.	5.5	23
11	Generalized bang-bang control for feedforward constrained regulation. Automatica, 2009, 45, 2234-2243.	5.0	21
12	A servo control system design using dynamic inversion. Control Engineering Practice, 2002, 10, 847-855.	5.5	20
13	Robust stability using interval analysis. International Journal of Systems Science, 1996, 27, 1381-1390.	5.5	18
14	Improving Set-Point-Following Performance of Industrial Controllers with a Fast Dynamic Inversion Algorithm. Industrial & Engineering Chemistry Research, 2003, 42, 1357-1362.	3.7	16
15	A Semi-Infinite Optimization Approach to Optimal Spline Trajectory Planning of Mechanical Manipulators. Nonconvex Optimization and Its Applications, 2001, , 271-297.	0.1	15
16	STABLE DYNAMIC INVERSION OF NONMINIMUM-PHASE SCALAR LINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 107-112.	0.4	13
17	Multi-optimization of η^3 -splines for autonomous parking. , 2011, , .		13
18	A hybrid algorithm for infinitely constrained optimization. International Journal of Systems Science, 2001, 32, 91-102.	5.5	10

#	ARTICLE	IF	CITATIONS
19	Algebraic solution to minimum-time velocity planning. International Journal of Control, Automation and Systems, 2013, 11, 805-814.	2.7	10
20	An automatic tuning method for cascade control systems. , 2006, , .		9
21	A behavioral approach to inversion-based control. Automatica, 2018, 95, 433-445.	5.0	9
22	Minimum-time control of flexible joints with input and output constraints. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	8
23	Flexible joints control: A minimum-time feed-forward technique. Mechatronics, 2009, 19, 348-356.	3.3	7
24	Minimum-time constrained velocity planning. , 2009, , .		7
25	Minimum-time feedforward control of an open liquid container. , 2013, , .		6
26	Polynomial interpolation for inversion-based control. European Journal of Control, 2020, 56, 62-72.	2.6	5
27	Minimum-time feedforward control with input and output constraints. , 2006, , .		4
28	An Iterative Approach for Noncausal Feedforward Tuning. Proceedings of the American Control Conference, 2007, , .	0.0	4
29	Minimum-time feedforward control for industrial processes. , 2007, , .		4
30	Point-to-Point Motion Planning for Servosystems With Elastic Transmission Via Optimal Dynamic Inversion1. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2001, 123, 733-736.	1.6	4
31	PARETO OPTIMAL FEEDFORWARD CONSTRAINED REGULATION OF MIMO LINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 419-424.	0.4	3
32	Minimum-time rest-to-rest feedforward action for PID feedback MIMO systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 217-222.	0.4	3
33	ROBUST MULTIVARIABLE SET-POINT REGULATION VIA STABLE DYNAMIC INVERSION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 1-6.	0.4	2
34	A TOOLBOX FOR INPUT-OUTPUT SYSTEM INVERSION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 416-421.	0.4	2
35	A Methodology for Integrated System Identification, PID Controller Tuning and Noncausal Feedforward Control Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 13324-13329.	0.4	2
36	Time-optimal dynamic path inversion for an automatic guided vehicle. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
37	Recursive convex replanning for the trajectory tracking of wheeled mobile robots. , 2010, , .		2
38	Iterative output replanning for flat systems affected by additive noise. , 2010, , .		1
39	Inverse feedforward control with output polynomial smoothing. , 2015, , .		1
40	IMPROVED PI CONTROL VIA DYNAMIC INVERSION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 301-306.	0.4	0
41	Worst-Case Optimal Static Output Feedback for Uncertain Systems. Optimization and Engineering, 2002, 3, 379-393.	2.4	0
42	ON THE USE OF DYNAMIC INVERSION FOR THE IMPROVEMENT OF PID CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 585-590.	0.4	0
43	Iterative Feedforward Tuning for Residual Vibration Reduction. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11829-11834.	0.4	0
44	Feedforward/feedback control of a magnetic levitation apparatus. , 2009, , .		0
45	Hermite Polynomials for Iterative Output Replanning for Flat Systems Affected by Additive Noise. Asian Journal of Control, 2013, 15, 292-301.	3.0	0
46	Input-Output Jumps of Scalar Linear Systems. IFAC-PapersOnLine, 2019, 52, 13-18.	0.9	0