Madhu N Belur

List of Publications by Year
in descending order

| 46 papers | 498 citations | 1163117 8 h-index | 677142 22 g-index |

| 46 all docs | 46 docs citations | 46 times ranked | 575 citing authors |

#	Article	IF	Citations
1	A Generalized Computational Method to Determine Stability of a Multi-inverter Microgrid. IEEE Transactions on Power Electronics, 2010, 25, 2420-2432.	7.9	264
2	Robust Active Queue Management for Wireless Networks. IEEE Transactions on Control Systems Technology, 2011, 19, 1630-1638.	5.2	40
3	Analysis and Mitigation of Voltage Offsets in Multi-inverter Microgrids. IEEE Transactions on Energy Conversion, 2011, 26, 354-363.	5.2	27
4	Minimum Cost Feedback Selection for Arbitrary Pole Placement in Structured Systems. IEEE Transactions on Automatic Control, 2018, 63, 3881-3888.	5.7	16
5	A Flow-Network-Based Polynomial-Time Approximation Algorithm for the Minimum Constrained Input Structural Controllability Problem. IEEE Transactions on Automatic Control, 2018, 63, 3151-3158.	5.7	16
6	A Two-Time-Scale Approach for Discrete-Time Kalman Filter Design and Application to AHWR Flux Mapping. IEEE Transactions on Nuclear Science, 2016, 63, 359-370.	2.0	15
7	Singular LQ Control, Optimal PD Controller and Inadmissible Initial Conditions. IEEE Transactions on Automatic Control, 2013, 58, 2603-2608.	5.7	14
8	Data reconciliation and gross error analysis of self powered neutron detectors: comparison of PCA and IPCA based models. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2012, 4, 91-115.	1.1	12
9	Reduced-order controller synthesis with regional pole constraint. International Journal of Control, 2016, 89, 221-234.	1.9	8
10	Stationary trajectories, singular Hamiltonian systems and ill-posed interconnection. , 2013, , .		6
11	Sparsest Feedback Selection for Structurally Cyclic Systems With Dedicated Actuators and Sensors in Polynomial Time. IEEE Transactions on Automatic Control, 2019, 64, 3956-3963.	5.7	6
12	New results in optimal quadratic supply rates. , 2008, , .		5
13	Decentralized control of a line interactive Uninterruptible Power Supply (UPS). , 2010, , .		5
14	Low order controller with regional pole placement. , 2012, , .		5
15	Generic pole assignability, structurally constrained controllers and unimodular completion. Linear Algebra and Its Applications, 2013, 439, 4003-4022.	0.9	5
16	New Results and Techniques for Computation of Stored Energy in Lossless/All-Pass Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 72-85.	5.4	5
17	Approximating constrained minimum cost input–output selection for generic arbitrary pole placement in structured systems. Automatica, 2019, 107, 200-210.	5.0	5
18	Optimal selection of essential interconnections for structural controllability in heterogeneous subsystems. Automatica, 2019, 103, 424-434.	5.0	5

#	Article	IF	Citations
19	Uncontrollable dissipative systems: observability and embeddability. International Journal of Control, 2014, 87, 101-119.	1.9	4
20	Application of model order reduction techniques to space-time kinetics model of AHWR. , 2015, , .		4
21	Optimal Network Topology Design in Composite Systems for Structural Controllability. IEEE Transactions on Control of Network Systems, 2020, 7, 1164-1175.	3.7	4
22	Minimal controller structure for generic pole placement. , 2013, , .		3
23	Impulse Controllability: From Descriptor Systems to Higher Order DAEs. IEEE Transactions on Automatic Control, 2016, 61, 2463-2472.	5.7	3
24	Target Controllability of Structured Systems. , 2019, , .		3
25	Closed-form solutions of singular KYP lemma: strongly passive systems, and fast lossless trajectories. International Journal of Control, 2020, 93, 1204-1217.	1.9	3
26	New results and algorithms for computing storage functions: The lossless/all-pass cases. , 2016, , .		2
27	Fast modes in the set of minimal dissipation trajectories. Systems and Control Letters, 2017, 101, 28-36.	2.3	2
28	On the link between storage functions of allpass systems and Gramians. , 2017, , .		2
29	Interlacing Properties of System-Poles, System-Zeros, and Spectral-Zeros in MIMO Systems. IEEE Transactions on Automatic Control, 2022, 67, 3746-3753.	5.7	2
30	Comparison of various linear discriminant analysis techniques for fault diagnosis of Re-usable Launch Vehicle. , 2011, , .		1
31	Improper <formula formulatype="inline"><tex Notation="TeX">${\cal L}_{\infty}$</tex></formula> Optimal/Suboptimal Controllers. IEEE Transactions on Automatic Control, 2012, 57, 1280-1285.	5.7	1
32	Decentralized controllability of multi-inverter microgrids. , 2013, , .		1
33	Nearest singular descriptor system having impulsive initial-conditions. , 2014, , .		1
34	Lossless Systems Storage Function: New Results and Numerically Stable and Non-Iterative Computational Methods. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 4349-4362.	5.4	1
35	The persistence of impulse controllability. Mathematics of Control, Signals, and Systems, 2019, 31, 487-501.	2.3	1
36	On the Distance to Singular Descriptor Dynamical Systems With Impulsive Initial Conditions. IEEE Transactions on Automatic Control, 2019, 64, 1137-1149.	5.7	1

#	Article	IF	Citations
37	Impulsive solutions, inadmissible initial conditions and pole/zero structure at infinity. , 2011, , .		0
38	MIXD-TCP: Completely decoupled end to end congestion control algorithm. , 2013, , .		0
39	Minimum controller substructure for generic arbitrary pole placement: Multicommodity flow and TSP based formulations. , 2016, , .		0
40	A 2D-DFT based method to compute the Bezoutian and a link to Lyapunov equations. , 2017, , .		0
41	Consistent input/output partitions in a causal systems. , 2018, , .		0
42	Development of a railway junction simulator for evaluation of control strategies and capacity utilization optimization. , 2019, , .		0
43	Defective Hamiltonian matrix imaginary eigenvalues and losslessness. , 2019, , .		0
44	Regular feedback implementability of behaviors. , 2007, , .		0
45	A Randomized Algorithm for Minimum Cost Constrained Input Selection for State Space Structural Controllability. , 2018, , .		0
46	On solutions of bounded-real LMI for singularly bounded-real systems. , 2018, , .		0