Sridharakumar Narasimhan

List of Publications by Year
in descending order

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52	530	840728 11	713444 21
papers	citations	h-index	g-index

52	52	52	526
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sensor network design based on system-wide reliability criteria. Part II: Formulations and applications. Journal of Process Control, 2020, 93, 14-27.	3.3	8
2	Sensor network design based on system-wide reliability criteria. Part I: Objectives. Journal of Process Control, 2020, 93, 66-82.	3.3	7
3	Robust Scheduling of Water Distribution Networks. IFAC-PapersOnLine, 2020, 53, 206-207.	0.9	0
4	State Estimation for Nonâ€“linear Fully-implicit, Index-1 Differential Algebraic Equation Systems. , 2020, , .		0
5	Analysis of Experimental Conditions, Measurement Strategies, and Model Identification Approaches on Parameter Estimation in Plug Flow Reactors. Industrial & Engineering Chemistry Research, 2019, 58, 13767-13779.	3.7	3
6	A versatile major axis voted method for efficient ellipse detection. Pattern Recognition Letters, 2018, 104, 45-52.	4.2	4
7	Economically Optimal Input Design Approach for Identification of Constrained Processes. Industrial & Engineering Chemistry Research, 2018, 57, 6956-6967.	3.7	3
8	A graph partitioning algorithm for leak detection in water distribution networks. Computers and Chemical Engineering, 2018, 108, 11-23.	3.8	34
9	Optimal Scheduling of Rural Water Supply Schemes âŽ âŽThis work was partially supported by the Department of Science and Technology, Govt. of India under the Water Technology Initiative (Proj. No.) Tj ETQq1 1 0.784314 rgBT /Ov (CSE/14-15/831/RETP/BRAV).. IFAC-PapersOnLine, 2018, 51, 142-147.	0.9	4
10	A Priori Parameter Identifiability in Complex Reaction Networks. IFAC-PapersOnLine, 2018, 51, 760-765.	0.9	4
11	Optimal Selection of Reference Components and Measurements in Reaction Systems. Industrial & Engineering Chemistry Research, 2018, 57, 15096-15104.	3.7	3
12	Optimal operation of water distribution networks with intermediate storage facilities. Computers and Chemical Engineering, 2018, 119, 215-227.	3.8	16
13	Operation of Intermittent Water Distribution Systems: An Experimental Study. Computer Aided Chemical Engineering, 2018, 44, 1975-1980.	0.5	1
14	Effects of water induced pore blockage and mitigation strategies in low temperature PEMÂfuelÂcells â€“ A simulation study. International Journal of Hydrogen Energy, 2017, 42, 23799-23813.	7.1	17
15	Optimal sensor placement strategies for large scale systems. Computer Aided Chemical Engineering, 2017, 40, 2107-2112.	0.5	1
16	Unsupervised Segmentation of Cervical Cell Images Using Gaussian Mixture Model. , 2016, , .		31
17	Optimal Input Signal Design for Identification of Interactive and Ill-Conditioned Systems. Industrial & Engineering Chemistry Research, 2016, 55, 4000-4010.	3.7	8
18	Economical Input Design for Identification of Multivariate Systems. IFAC-PapersOnLine, 2015, 48, 1313-1318.	0.9	4

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19	Optimal control of water distribution networks with storage facilities. Journal of Process Control, 2015, 32, 127-137.	3.3	34
20	Optimal operation of battery-less solar powered reverse osmosis plant for desalination. Desalination, 2015, 375, 89-99.	8.2	56
21	Economical and plant friendly input design for system identification. , 2014, , .		5
22	Order reduction and control of hyperbolic, countercurrent distributed parameter systems using method of characteristics. Chemical Engineering Science, 2014, 110, 153-163.	3.8	4
23	Optimal Sensor Scheduling in Batch Processes Using Convex Relaxations and Tchebycheff Systems Theory. IEEE Transactions on Automatic Control, 2014, 59, 2978-2983.	5.7	3
24	Optimization of Unloading Operations in Petroleum Product Storage Terminals. Industrial & Engineering Chemistry Research, 2014, 53, 13728-13735.	3.7	3
25	Profitable and dynamically feasible operating point selection for constrained processes. Journal of Process Control, 2014, 24, 531-541.	3.3	8
26	Approximate dynamic programming based control of hyperbolic PDE systems using reduced-order models from method of characteristics. Computers and Chemical Engineering, 2013, 57, 122-132.	3.8	7
27	A Novel attempt to reduce engineering effort in modeling non-linear chemical systems for Operator Training Simulators. , 2013, , .		0
28	Model order reduction of hyperbolic systems using method of characteristics and differential transform. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 785-790.	0.4	0
29	Robust Plant Friendly Optimal Input Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 553-558.	0.4	2
30	Branch and Bound Algorithm for Optimal Sensor Network Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 690-695.	0.4	3
31	Economic back-off selection based on optimal multivariable controller. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 792-797.	0.4	4
32	Plant friendly input design for system identification in closed loop. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1335-1340.	0.4	1
33	Sensor Network Design for Optimal Process Operation Based on Data Reconciliation. Industrial & Engineering Chemistry Research, 2012, 51, 6789-6797.	3.7	13
34	Modeling and simulation of unloading operations in petroleum product storage terminals. Computers and Chemical Engineering, 2012, 46, 59-68.	3.8	6
35	Optimal operation of reverse osmosis plant driven by solar power without batteries. Computer Aided Chemical Engineering, 2012, , 1442-1446.	0.5	0
36	Online Model Predictive Control of Municipal Water Distribution Networks. Computer Aided Chemical Engineering, 2012, 31, 1622-1626.	0.5	5

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37	Data reconciliation using uncertain models. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2012, 4, 3-9.	1.1	5
38	Approximate Dynamic Programming based control for Water Gas Shift reactor. Computer Aided Chemical Engineering, 2012, , 340-344.	0.5	3
39	Constraint Programming based Input Signal Design for System Identification. Computer Aided Chemical Engineering, 2012, 31, 965-969.	0.5	0
40	Integrated Sensor Network Design. Computer Aided Chemical Engineering, 2012, , 1522-1526.	0.5	1
41	Optimal Plant Friendly Input Design for System Identification. Industrial & Engineering Chemistry Research, 2011, 50, 13045-13055.	3.7	6
42	Optimization of pipeline unloading operations in an LPG terminal. Computer Aided Chemical Engineering, 2011, , 1934-1938.	0.5	1
43	Plant Friendly Input Design: Convex Relaxation and Quality. IEEE Transactions on Automatic Control, 2011, 56, 1467-1472.	5.7	16
44	Structural Properties of Gene Regulatory Networks: Definitions and Connections. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2009, 6, 158-170.	3.0	6
45	Control structure design for optimal operation of heat exchanger networks. AICHE Journal, 2008, 54, 150-162.	3.6	39
46	New nonlinear residual feedback observer for fault diagnosis in nonlinear systems. Automatica, 2008, 44, 2222-2229.	5.0	68
47	Robust sensor network design for fault diagnosis. Computers and Chemical Engineering, 2008, 32, 1067-1084.	3.8	55
48	A new approach to explicit MPC using self-optimizing control. , 2008, , .		7
49	Optimal output selection for control of batch processes. , 2008, , .		7
50	Explicit MPC with output feedback using self-optimizing control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 6956-6961.	0.4	2
51	IMPLEMENTATION OF OPTIMAL OPERATION USING OFF-LINE COMPUTATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 119-124.	0.4	0
52	Quantification of performance of sensor networks for fault diagnosis. AICHE Journal, 2007, 53, 902-917.	3.6	12