

S Janardhanan

List of Publications by Year in descending order

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111
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times ranked

851
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#	ARTICLE	IF	CITATIONS
1	Laguerre function-based model predictive control for multiple product inventory systems. International Journal of Systems Science: Operations and Logistics, 2022, 9, 133-142.	3.0	2
2	Frequency-Domain Modeling of Dual-Active-Bridge Converter Based on Harmonic Balance Approach. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 166-176.	3.9	6
3	Computationally Efficient Nonlinear MPC for Discrete System with Disturbances. International Journal of Control, Automation and Systems, 2022, 20, 1951-1960.	2.7	2
4	New design methodology for adaptive switching gain based discrete-time sliding mode control. International Journal of Control, 2021, 94, 1081-1088.	1.9	12
5	Discrete Stochastic Sliding Mode with Functional Observation. Studies in Systems, Decision and Control, 2021, , 119-144.	1.0	1
6	Sliding mode control of uncertain fractional order systems with delay. International Journal of Control, 2020, 93, 934-943.	1.9	10
7	Inventory control for nonperishable and perishable goods based on model predictive control. International Journal of Systems Science: Operations and Logistics, 2020, 7, 361-373.	3.0	9
8	LQR Control of Multiple Product Inventory Systems for Profit and Warehouse Capacity Maximization. , 2020, , .		2
9	Functional Observer-Based Sliding Mode Control for Discrete-Time Stochastic Systems with Unmatched Uncertainty. Lecture Notes in Control and Information Sciences, 2020, , 45-59.	1.0	1
10	Stochastic Sliding Mode Control for Parametric Uncertain Systems Using a Functional Observer. Lecture Notes in Control and Information Sciences, 2020, , 61-70.	1.0	0
11	Preliminary Concepts. Lecture Notes in Control and Information Sciences, 2020, , 1-24.	1.0	0
12	Adaptive Discrete-Time Higher Order Sliding Mode. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 612-616.	3.0	12
13	Functional observer-based sliding mode controller design for discrete-time stochastic LTI systems with unmatched uncertainty. International Journal of Systems Science, 2019, 50, 1179-1189.	5.5	8
14	Adaptive Sliding Mode Controller using Finite-Time Functional Observer for Continuous-time LTI Systems with Unknown Inputs. , 2019, , .		0
15	Sliding mode control design for parametric uncertain stochastic systems with state delay using functional observer. IET Control Theory and Applications, 2019, 13, 562-571.	2.1	4
16	Discrete-Time Higher Order Sliding Mode. , 2019, , 15-32.		0
17	Stochastic Sliding Mode Control for Parametric Uncertain Systems Using Functional Observer. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1346-1350.	3.0	8
18	Discrete-time higher order sliding mode control of systems with unmatched uncertainty. International Journal of Robust and Nonlinear Control, 2019, 29, 135-152.	3.7	26

#	ARTICLE	IF	CITATIONS
19	Optimal Discrete-Time Higher Order Sliding Mode. , 2019, , 33-48.		0
20	Discrete-Time Higher Order Sliding Mode Control of Unmatched Uncertain Systems. , 2019, , 49-69.		0
21	Adaptive Discrete-Time Higher Order Sliding Mode. , 2019, , 71-81.		2
22	Taylorâ€‘Lie formulation based discretization of nonlinear systems. International Journal of Dynamics and Control, 2018, 6, 459-467.	2.5	4
23	Spacecraft Antiâ€‘Unwinding Attitude Control Using Secondâ€‘Order Sliding Mode. Asian Journal of Control, 2018, 20, 455-468.	3.0	56
24	Efficient Nonlinear Model Predictive Control for Discrete System with Disturbances. , 2018, , .		3
25	Adaptive Higher Order Sliding Mode Control for Nonlinear Uncertain Systems. IFAC-PapersOnLine, 2018, 51, 341-346.	0.9	6
26	A Robust Sliding Mode Control Approach for Uncertain Delay Systems Using Lambert W Function. , 2018, , .		0
27	Linear Functional Observers for Unforced Multi-Output Nonlinear Systems. IFAC-PapersOnLine, 2018, 51, 708-712.	0.9	2
28	Functional observer-based sliding mode control for linear discrete-time-delayed stochastic systems. International Journal of Systems Science, 2018, 49, 1895-1907.	5.5	5
29	Management of Inventory for Periodically Reviewed Goods Using Discrete Higher Order Sliding Mode. IETE Journal of Research, 2017, 63, 552-557.	2.6	7
30	Optimal discrete higherâ€‘order sliding mode control of uncertain LTI systems with partial state information. International Journal of Robust and Nonlinear Control, 2017, 27, 4104-4115.	3.7	21
31	Discrete higher order sliding mode: concept to validation. IET Control Theory and Applications, 2017, 11, 1098-1103.	2.1	25
32	Sliding mode control-based linear functional observers for discrete-time stochastic systems. International Journal of Systems Science, 2017, 48, 3246-3253.	5.5	18
33	Stochastic discrete higher order sliding mode control. , 2017, , .		7
34	Finite time eigenaxis rotation using quaternion feedback. , 2017, , .		8
35	Output feedback optimal control of fractional order delayed systems. , 2017, , .		0
36	Discretization of duffing oscillator dynamics by Taylor-Lie formulation based method. , 2017, , .		1

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37	Functional observer design for linear discrete-time stochastic system. , 2017, , .		4
38	A modified discrete-time sliding surface design for unmatched uncertainties. , 2017, , .		5
39	Reduced output feedback based discrete-time first-order and higher-order sliding mode control. , 2017, , .		2
40	Analysis of Multidimensional Time Delay Systems Using Lambert W Function. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	10
41	Attitude control using higher order sliding mode. Aerospace Science and Technology, 2016, 54, 108-113.	4.8	69
42	Taylor Discretization Based Class of Exactly Discretizable Nonlinear Systems. IFAC-PapersOnLine, 2016, 49, 510-515.	0.9	4
43	Configuration Control of Planar Underactuated Robotic Manipulator using Terminal Sliding Mode. IFAC-PapersOnLine, 2016, 49, 148-153.	0.9	14
44	Sliding Mode Control of Uncertain Time Delay System using Lambert W Function. IFAC-PapersOnLine, 2016, 49, 173-177.	0.9	3
45	Discrete Wide-area Power System Damping Controller using Periodic Output Feedback. Electric Power Components and Systems, 2016, 44, 1892-1903.	1.8	6
46	Management of periodically reviewed inventory systems with discrete variable structure control. , 2016, , .		5
47	A Novel Second-order Recursive Reaching Law based Discrete-time Sliding Mode Control. IFAC-PapersOnLine, 2016, 49, 225-229.	0.9	17
48	Fast terminal sliding mode control for twin rotor multi-input multi-output system. , 2015, , .		1
49	A direct method for stabilization of time delay systems. , 2015, , .		2
50	A smart higher order sliding mode control of rigid articulated robotic manipulator with passive joints. International Journal of Modelling, Identification and Control, 2015, 23, 260.	0.2	4
51	Adaptive parameter space sampling in matrix interpolatory pMOR. , 2015, , .		7
52	Continuity and order of continuity in discrete-time higher order sliding mode. , 2015, , .		9
53	Stochastic variable structure control of discrete time LTI systems with bounded disturbances. , 2015, , .		7
54	Rigid spacecraft attitude control using adaptive integral second order sliding mode. Aerospace Science and Technology, 2015, 42, 50-57.	4.8	115

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55	Rigid Spacecraft Attitude Control Using Adaptive Non-singular Fast Terminal Sliding Mode. Journal of Control, Automation and Electrical Systems, 2015, 26, 115-124.	2.0	26
56	An adaptive solution for robust control based on integral high-order sliding mode concept. International Journal of Robust and Nonlinear Control, 2015, 25, 1201-1213.	3.7	67
57	Rigid Spacecraft Fault-Tolerant Control Using Adaptive Fast Terminal Sliding Mode. Studies in Computational Intelligence, 2015, , 381-406.	0.9	9
58	Open-Loop Functional Observer and State Feedback for Linear Systems Using Multirate Output Sampling. Asian Journal of Control, 2014, 16, 1897-1902.	3.0	9
59	A finite-time convergent sliding mode control for rigid underactuated robotic manipulator. Systems Science and Control Engineering, 2014, 2, 493-499.	3.1	6
60	Fast simulation of nonlinear dynamical systems for application in reduced order modelling. , 2014, , .		0
61	Second order sliding mode controller and online path planning for space rovers. International Journal of Modelling, Identification and Control, 2014, 21, 321.	0.2	4
62	Multirate output functional observer in linear feedback for systems with unknown inputs. , 2014, , .		0
63	Approximate Snapshot-ensemble Generation for Basis Extraction in Proper Orthogonal Decomposition. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 917-921.	0.4	7
64	Rigid spacecraft attitude tracking using finite time sliding mode control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 263-270.	0.4	3
65	Nonlinearity-aware sub-model combination in trajectory based methods for nonlinear Mor. Mathematics and Computers in Simulation, 2013, 94, 127-144.	4.4	6
66	A robust third order sliding mode control of rigid underactuated robotic manipulator. , 2013, , .		1
67	Piece-wise Quasi-linear Approximation for Nonlinear Model Reduction. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2013, 32, 2009-2013.	2.7	13
68	Minimum variance functional filtering for multirate sampled systems. , 2013, , .		1
69	Trajectory tracking of two wheeled mobile robot using higher order sliding mode control. , 2013, , .		20
70	Multirate Functional Observer Based Discrete-Time Sliding Mode Control. Lecture Notes in Control and Information Sciences, 2013, , 267-281.	1.0	3
71	An efficient control of rigid robotic manipulator with uncertainties using higher order sliding mode control. International Journal of Modelling, Identification and Control, 2013, 19, 179.	0.2	14
72	Multirate output sampling linear functional observer-based state feedback for systems with delay in state variables. International Journal of Modelling, Identification and Control, 2013, 20, 47.	0.2	4

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73	AFAS - adaptive fast approximate simulation for non-linear model reduction. International Journal of Modelling, Identification and Control, 2013, 19, 113.	0.2	2
74	Modelling and simulation strategy for parametric transient electromagnetic simulations. International Journal of Modelling, Identification and Control, 2013, 18, 251.	0.2	3
75	Automated and efficient order selection in Krylov-based model order reduction. International Journal of Modelling, Identification and Control, 2013, 18, 332.	0.2	3
76	Trajectory piece-wise quasi-linear approximation of large non-linear dynamic systems. International Journal of Modelling, Identification and Control, 2013, 19, 369.	0.2	3
77	Spacecraft attitude control using non-singular finite time convergence fast terminal sliding mode. International Journal of Instrumentation Technology, 2013, 1, 124.	0.1	4
78	Sliding mode control of uncertain systems using multirate output feedback functional observer. , 2012, , .		4
79	Trajectory based methods for nonlinear MOR: Review and perspectives. , 2012, , .		8
80	Controller Design of Twin Spool Gas Turbine using Reduced Output Feedback Sliding Mode Control. IETE Journal of Research, 2012, 58, 367.	2.6	1
81	Attitude control of magnetic actuated spacecraft using super-twisting algorithm with nonlinear sliding surface. , 2012, , .		12
82	A review of parametric model order reduction techniques. , 2012, , .		14
83	DSP based tracking of twin spool gas turbine using reduced output feedback sliding mode control. , 2012, , .		1
84	Parameterized model order reduction for fast transient electromagnetic simulations. , 2012, , .		1
85	Tracking of Twin Spool Gas Turbine Using Reduced Output Feedback Sliding Mode Control. , 2011, , .		1
86	QFT Based Control for Twin Rotor MIMO System. , 2011, , .		2
87	State Based Functional Observer Design for Linear Uncertain Systems Using Multirate Output Sampling. Advanced Materials Research, 2011, 403-408, 3859-3866.	0.3	0
88	A finite-time convergent continuous time sliding mode controller for spacecraft attitude control. , 2010, , .		17
89	Multirate output feedback sliding mode control design using reduced order functional observer. , 2010, , .		4
90	Design of multirate output sampling based linear functional observer and state feedback. , 2010, , .		6

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91	Multirate-Output-Feedback-Based LQ-Optimal Discrete-Time Sliding Mode Control. IEEE Transactions on Automatic Control, 2008, 53, 367-373.	5.7	106
92	Local Self-Optimizing Control with Average Loss Minimization. Industrial & Engineering Chemistry Research, 2008, 47, 1150-1158.	3.7	104
93	Multirate Output Feedback Based Robust Quasi-Sliding Mode Control of Discrete-Time Systems. IEEE Transactions on Automatic Control, 2007, 52, 499-503.	5.7	113
94	Sliding mode control design via reduced order model approach. International Journal of Automation and Computing, 2007, 4, 329-334.	4.5	41
95	Discrete Sliding Mode Control of Systems With Unmatched Uncertainty Using Multirate Output Feedback. IEEE Transactions on Automatic Control, 2006, 51, 1030-1035.	5.7	61
96	Digital Redesign of Sliding Mode Control Algorithms Using Saturation Function: State and Multirate Output Feedback Approach. , 2006, , .		2
97	Output Feedback Sliding-Mode Control for Uncertain Systems Using Fast Output Sampling Technique. IEEE Transactions on Industrial Electronics, 2006, 53, 1677-1682.	7.9	90
98	On Discretization of Continuous-Time Terminal Sliding Mode. IEEE Transactions on Automatic Control, 2006, 51, 1532-1536.	5.7	74
99	Output feedback discrete-time sliding mode control for time delay systems. IET Control Theory and Applications, 2006, 153, 387-396.	1.7	26
100	Relay-free Second Order Sliding Mode Control. , 2006, , .		16
101	Sliding Mode Control Design via Reduced Order Model Approach. , 2006, , .		8
102	A NEW ALGORITHM FOR DISCRETE-TIME SLIDING MODE CONTROL USING INFREQUENT OUTPUT OBSERVATIONS. Asian Journal of Control, 2005, 7, 310-318.	3.0	9
103	Output feedback control of practical launch vehicle systems. , 0, , .		3
104	Sensorless control of induction motor using fast output sampling technique. , 0, , .		1
105	Multirate Output Feedback Sliding Mode Controller for Sensorless Induction Motor. , 0, , .		4
106	Robust Quasi-Sliding Mode Control of Discrete-time Systems using Multirate Output Feedback. , 0, , .		2
107	Discrete-Time Sliding Mode Control Using Multirate Output Feedback. , 0, , 351-371.		11
108	Multirate Output Feedback based Digital Redesign of Sliding Mode Control Algorithms. , 0, , .		4

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109	Computationally Efficient Functional Observer for LTI System Based on a Multirate Output Sampling Algorithm. Advanced Materials Research, 0, 403-408, 3875-3883.	0.3	0
110	Multirate Output Feedback Based Optimal Filtering and Control for Discrete-Time LTI Systems. Advanced Materials Research, 0, 433-440, 6514-6520.	0.3	2
111	4 Multirate Output Feedback based Discrete-time Quasi-Sliding Mode Control of Time Delay Systems. , 0, , 51-70.		2