

Shubhendu Bhasin

List of Publications by Year in descending order

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65
papers

1,481
citations

566801

15
h-index

395343

33
g-index

65
all docs

65
docs citations

65
times ranked

991
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial-Excitation-Based Robust Adaptive Observer for MIMO LTI Systems. IEEE Transactions on Automatic Control, 2023, 68, 2536-2543.	3.6	0
2	Finite excitation based robust adaptive observer for MIMO LTI systems. International Journal of Adaptive Control and Signal Processing, 2022, 36, 180-197.	2.3	3
3	Control-Oriented Physics-Based Modeling and Observer Design for State-of-Charge Estimation of Lithium-Ion Cells for High Current Applications. IEEE Transactions on Control Systems Technology, 2022, 30, 2466-2479.	3.2	5
4	Adaptive Control of Time-Varying Parameter Systems With Asymptotic Tracking. IEEE Transactions on Automatic Control, 2022, 67, 4809-4815.	3.6	7
5	An Integrated Dynamic Closed Loop Simulation Platform for Elbow Flexion Augmentation Using an Upper Limb Exosuit Model. Frontiers in Robotics and AI, 2022, 9, 768841.	2.0	3
6	A Comparative Study of Observer-Based State-of-Charge Estimation using Single-Particle Model with Electrolyte Dynamics and Equivalent Circuit Model of Lithium-ion Cells. IFAC-PapersOnLine, 2022, 55, 541-546.	0.5	1
7	Initial excitation based discrete-time multi-model adaptive online identification. European Journal of Control, 2022, 68, 100672.	1.6	2
8	Adaptive compensation of uncertain Euler-Lagrange systems with multiple time-varying actuator faults. Nonlinear Analysis: Hybrid Systems, 2022, 46, 101236.	2.1	1
9	Indirect Adaptive MPC for Discrete-Time LTI Systems With Parametric Uncertainties. IEEE Transactions on Automatic Control, 2021, 66, 5498-5505.	3.6	19
10	Adaptive Fault-Tolerant Control of Uncertain Euler-Lagrange Systems With Time-Varying Actuator Faults. , 2021, , .		0
11	Adaptive linear quadratic regulator for continuous-time systems with uncertain dynamics. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 833-841.	8.5	5
12	Composite Adaptive Control of Uncertain Euler-Lagrange Systems with Parameter Convergence without PE Condition. Asian Journal of Control, 2020, 22, 1-10.	1.9	46
13	Decentralized Nonlinear Adaptive Optimal Control Scheme for Enhancement of Power System Stability. IEEE Transactions on Power Systems, 2020, 35, 1400-1410.	4.6	19
14	Tracking control of uncertain nonlinear systems with unknown constant input delay. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 420-425.	8.5	10
15	Global tracking of nonlinear systems with simultaneous unknown time-varying state and input delays. International Journal of Robust and Nonlinear Control, 2020, 30, 882-893.	2.1	0
16	Non-singular Trajectory Tracking Control of a Pitch-Constrained Quad-Rotorcraft using Integral Barrier Lyapunov Function. , 2020, , .		4
17	Attractive Ellipsoid Sliding Mode Observer Design for State of Charge Estimation of Lithium-Ion Cells. IEEE Transactions on Vehicular Technology, 2020, 69, 14701-14712.	3.9	22
18	Barrier-Lyapunov Function based Dynamic Surface Control of Quad-Rotorcraft. IFAC-PapersOnLine, 2020, 53, 9378-9383.	0.5	0

#	ARTICLE	IF	CITATIONS
19	A Non-singular Hierarchical Trajectory Tracking Control of a Quadrotor without Attitude Rate Measurement. , 2020, , .		1
20	Multi-Model Indirect Adaptive MPC. , 2020, , .		2
21	Lyapunov Based Hierarchical Trajectory Control of an Autonomous Ground Vehicle Subjected to Slip. IFAC-PapersOnLine, 2020, 53, 6340-6345.	0.5	0
22	Robust backstepping control of uncertain nonlinear systems with unknown time-varying input delay. IFAC-PapersOnLine, 2020, 53, 4862-4867.	0.5	0
23	Indirect Adaptive MPC for Discrete-time LTI system with Robust Constraint Satisfaction. , 2020, , .		4
24	Initial Excitation-Based Iterative Algorithm for Approximate Optimal Control of Completely Unknown LTI Systems. IEEE Transactions on Automatic Control, 2019, 64, 5230-5237.	3.6	30
25	Lyapunov-based Hierarchical Control Design of a Quad-Rotorcraft with Singularity Avoidance. , 2019, , .		6
26	A Robust Delay Compensator for Uncertain Nonlinear Systems With Unknown Time-Varying Input Delay. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, , .	0.9	0
27	A Switched Adaptive Observer Design Without Persistence Of Excitation. , 2019, , .		5
28	Novel model reference adaptive control architecture using semi-initial excitation-based switched parameter estimator. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1759-1774.	2.3	11
29	A Singularity-Free Robust Hierarchical Quad-Rotorcraft Control Exploiting First Order Drag Effects. , 2019, , .		2
30	Transfemoral amputee's limit of stability and sway analysis during weight shifting exercise with a vibrotactile feedback system. Somatosensory & Motor Research, 2019, 36, 31-41.	0.4	11
31	Search algorithm for optimal damping parameters of transfemoral prosthetic limb. Applied Mathematical Modelling, 2019, 72, 356-368.	2.2	5
32	A switching-based collaborative fractional order fuzzy logic controllers for robotic manipulators. Applied Mathematical Modelling, 2019, 73, 228-246.	2.2	53
33	Tube based Adaptive Model Predictive Control. , 2019, , .		1
34	A Singularity-free Hierarchical Nonlinear Quad-Rotorcraft Control using Saturation and Barrier Lyapunov Function. , 2019, , .		7
35	Initial Excitation Based Adaptive Observer With Multiple Switching. , 2019, , .		2
36	Robustness Analysis of Initial Excitation based Adaptive Control. , 2019, , .		11

#	ARTICLE	IF	CITATIONS
37	Filter based Explorized Policy Iteration Algorithm for On-Policy Approximate LQR. , 2019, , .		0
38	Direct Adaptive Optimal Control for Uncertain Continuous-Time LTI Systems Without Persistence of Excitation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1993-1997.	2.2	24
39	Combined MRAC for Unknown MIMO LTI Systems With Parameter Convergence. IEEE Transactions on Automatic Control, 2018, 63, 283-290.	3.6	115
40	Memory-Efficient Filter-Based Approximate Optimal Regulation of Unknown LTI Systems Using Initial Excitation. , 2018, , .		9
41	Simultaneous Compensation of Unknown Time-Varying State and Input Delays for Uncertain Nonlinear Systems. , 2018, , .		1
42	Adaptive MPC for Uncertain Discrete-Time LTI MIMO Systems with Incremental Input Constraints. IFAC-PapersOnLine, 2018, 51, 329-334.	0.5	10
43	Novel Adaptive MPC Design for Uncertain MIMO Discrete-time LTI Systems with Input Constraints. , 2018, , .		6
44	Memory-Efficient Filter Based Novel Policy Iteration Technique for Adaptive LQR. , 2018, , .		5
45	Switched MRAC with improved performance using Semi-Initial Excitation. , 2018, , .		0
46	Robust Gradient-Based Adaptive Control of Nonlinearly Parametrized Plants. , 2017, 1, 352-357.		7
47	A UGES Switched MRAC Architecture Using Initial Excitation * *This work was supported in part by the Department of Science and Technology, India under grant SB/FTP/ETA-171/2013. IFAC-PapersOnLine, 2017, 50, 7044-7051.	0.5	7
48	Uniformly Ultimately Bounded Tracking for Uncertain Euler-Lagrange Systems with Unknown Time-Varying Input Delay. IFAC-PapersOnLine, 2017, 50, 1415-1420.	0.5	3
49	Data-Driven Adaptive LQR for Completely Unknown LTI Systems * *This work was supported in part by the Department of Science and Technology, India under grant SB/FTP/ETA-171/2013.. IFAC-PapersOnLine, 2017, 50, 4156-4161.	0.5	10
50	Policy iteration-based indirect adaptive optimal control for completely unknown continuous-time LTI systems. , 2017, , .		7
51	Parameter convergence via a novel PI-like composite adaptive controller for uncertain Euler-Lagrange systems. , 2016, , .		27
52	Adaptive tracking control of uncertain nonlinear systems with unknown input delay. , 2015, , .		7
53	Data driven MRAC with parameter convergence. , 2015, , .		3
54	Brace design for knee-angle measurement in human gait using infrared sensor. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
55	Approximate optimal trajectory tracking for continuous-time nonlinear systems. Automatica, 2015, 51, 40-48.	3.0	168
56	Approximate ϵ -Player Nonzero-Sum Game Solution for an Uncertain Continuous Nonlinear System. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1645-1658.	7.2	69
57	On-policy Q-learning for adaptive optimal control. , 2014, , .		9
58	A novel actor-critic identifier architecture for approximate optimal control of uncertain nonlinear systems. Automatica, 2013, 49, 82-92.	3.0	439
59	Robust Identification-Based State Derivative Estimation for Nonlinear Systems. IEEE Transactions on Automatic Control, 2013, 58, 187-192.	3.6	28
60	Online Partially Model-Free Solution of Two-Player Zero Sum Differential Games. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 696-701.	0.4	5
61	Predictor-based control for an uncertain Euler-Lagrange system with input delay. Automatica, 2011, 47, 2332-2342.	3.0	116
62	Asymptotic tracking by a reinforcement learning-based adaptive critic controller. Journal of Control Theory and Applications, 2011, 9, 400-409.	0.8	37
63	Composite Adaptation for Neural Network-Based Controllers. IEEE Transactions on Automatic Control, 2010, 55, 944-950.	3.6	57
64	Composite adaptation for neural network-based controllers. , 2009, , .		0
65	A Force Limiting Adaptive Controller for a Robotic System Undergoing a Noncontact-to-Contact Transition. IEEE Transactions on Control Systems Technology, 2009, 17, 1330-1341.	3.2	13