

Gang Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,310
citations

393982

19
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34
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82
docs citations

82
times ranked

912
citing authors

#	ARTICLE	IF	CITATIONS
1	Event-Triggered State-Feedback and Dynamic Output-Feedback Control of PMJSs With Intermittent Faults. IEEE Transactions on Automatic Control, 2023, 68, 1039-1046.	3.6	25
2	Autonomous Skill Learning of Water Polo Ball Heading for a Robotic Fish: Curriculum and Verification. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 865-876.	2.6	2
3	Discrete Cosserat Method for Soft Manipulators Workspace Estimation: An Optimization-Based Approach. Journal of Mechanisms and Robotics, 2022, 14, .	1.5	5
4	A comprehensive static modeling methodology via beam theory for compliant mechanisms. Mechanism and Machine Theory, 2022, 169, 104598.	2.7	10
5	Theoretical Analysis on Nonlinear Buckling, Post-Buckling of Slender Beams and Bi-Stable Mechanisms. Journal of Mechanisms and Robotics, 2022, 14, .	1.5	5
6	Hybrid gain performance-based random event-triggered filter of positive semi-Markovian jump systems with intermittent sensor faults. International Journal of Robust and Nonlinear Control, 2022, 32, 1425-1452.	2.1	8
7	FEM-based trajectory tracking control of a soft trunk robot. Robotics and Autonomous Systems, 2022, 150, 103961.	3.0	6
8	FEM-Based Exterior Workspace Boundary Estimation for Soft Robots via Optimization. IEEE Robotics and Automation Letters, 2022, 7, 3672-3678.	3.3	3
9	Quadrotor stabilization under time and space constraints using implicit PID controller. Journal of the Franklin Institute, 2022, 359, 1505-1530.	1.9	15
10	FEM-Based Nonlinear Controller for a Soft Trunk Robot. IEEE Robotics and Automation Letters, 2022, 7, 5735-5740.	3.3	3
11	Insight into numerical solutions of static large deflection of general planar beams for Compliant Mechanisms. Mechanism and Machine Theory, 2022, 172, 104757.	2.7	4
12	Generalized homogenization of linear controllers: Theory and experiment. International Journal of Robust and Nonlinear Control, 2021, 31, 3455-3479.	2.1	8
13	Extension to Nonlinear Dynamical Systems with Multiple Outputs. Lecture Notes in Control and Information Sciences, 2021, , 143-172.	0.6	0
14	Observer Normal Form by Means of Extended Dynamics. Lecture Notes in Control and Information Sciences, 2021, , 91-106.	0.6	0
15	Extension to Nonlinear Singular Dynamical Systems. Lecture Notes in Control and Information Sciences, 2021, , 173-189.	0.6	0
16	Output-Depending Observer Normal Form. Lecture Notes in Control and Information Sciences, 2021, , 107-126.	0.6	0
17	FEM-Based Gain-Scheduling Control of a Soft Trunk Robot. IEEE Robotics and Automation Letters, 2021, 6, 3081-3088.	3.3	17
18	Efficient spatial compliance analysis of general initially curved beams for mechanism synthesis and optimization. Mechanism and Machine Theory, 2021, 162, 104343.	2.7	17

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19	Generalized homogenization of linear observers: Theory and experiment. International Journal of Robust and Nonlinear Control, 2021, 31, 7971-7984.	2.1	5
20	Workspace Boundary Estimation for Soft Manipulators Using a Continuation Approach. IEEE Robotics and Automation Letters, 2021, 6, 7169-7176.	3.3	4
21	Observability and observer design of time-delay linear systems with unknown inputs. , 2021, , 209-239.		1
22	Soft manipulator control via gain-scheduling strategy. , 2021, , .		0
23	Event-triggered observer design for output-sampled systems. Nonlinear Analysis: Hybrid Systems, 2021, 43, 101112.	2.1	3
24	Robust control of a silicone soft robot using neural networks. ISA Transactions, 2020, 100, 38-45.	3.1	29
25	Algorithm to Compute Nonlinear Partial Observer Normal Form With Multiple Outputs. IEEE Transactions on Automatic Control, 2020, 65, 2700-2707.	3.6	1
26	Disturbance compensation based controller for an indoor blimp robot. Robotics and Autonomous Systems, 2020, 124, 103402.	3.0	8
27	Event-Triggered Observer Design for Delayed Output-Sampled Systems. IEEE Transactions on Automatic Control, 2020, 65, 4824-4831.	3.6	24
28	A Model-Based Sensor Fusion Approach for Force and Shape Estimation in Soft Robotics. IEEE Robotics and Automation Letters, 2020, 5, 5621-5628.	3.3	47
29	Fixed-time sliding mode-based observer for nonlinear systems with unknown parameters and unknown inputs. IET Control Theory and Applications, 2020, 14, 1920-1927.	1.2	7
30	FEM Based Workspace Estimation for Soft Robots: a Forward-Backward Interval Analysis Approach. , 2020, , .		5
31	Control of a Silicone Soft Tripod Robot via Uncertainty Compensation. IEEE Robotics and Automation Letters, 2020, 5, 2801-2807.	3.3	11
32	Modeling Novel Soft Mechanosensors Based on Air-Flow Measurements. IEEE Robotics and Automation Letters, 2019, 4, 4338-4345.	3.3	19
33	Dynamical sparse signal recovery with fixed-time convergence. Signal Processing, 2019, 162, 65-74.	2.1	17
34	Finite-time estimation for linear time-delay systems via homogeneous method. International Journal of Control, 2019, 92, 1252-1263.	1.2	6
35	Differentiator application in altitude control for an indoor blimp robot. International Journal of Control, 2018, 91, 2121-2130.	1.2	17
36	Impulsive fixed-time observer for linear time-delay systems. Journal of the Franklin Institute, 2018, 355, 3354-3366.	1.9	9

#	ARTICLE	IF	CITATIONS
37	Delay estimation via sliding mode for nonlinear time-delay systems. <i>Automatica</i> , 2018, 89, 266-273.	3.0	33
38	Impulsive Observer for Linear Singular Time-Delay Systems. , 2018, , .		0
39	Finite-time and asymptotic left inversion of nonlinear time-delay systems. <i>Automatica</i> , 2018, 95, 283-292.	3.0	3
40	Rotor speed, load torque and parameters estimations of a permanent magnet synchronous motor using extended observer forms. <i>IET Control Theory and Applications</i> , 2017, 11, 1485-1492.	1.2	14
41	Observer design for linear singular time-delay systems. <i>Automatica</i> , 2017, 80, 1-9.	3.0	25
42	Impulsive observer design for linear systems with delayed outputs. <i>IFAC-PapersOnLine</i> , 2017, 50, 1263-1268.	0.5	8
43	Unknown input functional observability of descriptor systems with neutral and distributed delay effects. <i>Automatica</i> , 2017, 85, 186-192.	3.0	7
44	Observability of singular systems with commensurate time-delays and neutral terms. <i>Automatica</i> , 2017, 85, 462-467.	3.0	8
45	A nonlinear Luenberger-like observer for nonlinear singular systems. <i>Automatica</i> , 2017, 86, 11-17.	3.0	38
46	Adaptive Observer for Simultaneous State and Parameter Estimations for an Output Depending Normal Form. <i>Asian Journal of Control</i> , 2017, 19, 356-361.	1.9	8
47	Dynamical Sparse Recovery With Finite-Time Convergence. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 6146-6157.	3.2	41
48	Estimation of unknown input for linear systems with commensurate delays. , 2017, , .		4
49	Observability analysis of linear singular time-delay systems. , 2017, , .		0
50	Luenberger-like observer for linear singular system with commensurate delay. , 2017, , .		0
51	Unknown input functional observability of descriptor systems with delays. , 2016, , .		2
52	Observer design for a class of nonlinear singular systems. , 2016, , .		6
53	Finite-time unknown input observer for linear time-delay systems. , 2016, , .		5
54	Finite-time observer for linear system with time delay. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
55	Delay estimation for nonlinear time-delay systems. , 2016, , .		2
56	A simple finite-time observer for linear time-delay systems. , 2016, , .		3
57	Interval observer for a class of uncertain nonlinear singular systems. Automatica, 2016, 71, 159-168.	3.0	58
58	Observability of singular time-delay systems with unknown inputs. Systems and Control Letters, 2016, 89, 55-60.	1.3	10
59	Partial observer normal form for nonlinear system. Automatica, 2016, 64, 54-62.	3.0	11
60	Design of interval observer for a class of uncertain unobservable nonlinear systems. Automatica, 2016, 63, 167-174.	3.0	66
61	Identifiability and Observability of Nonlinear Time-Delay Systems with Unknown Inputs. Advances in Delays and Dynamics, 2016, , 385-403.	0.4	3
62	Modelling and control of actuators with built-in position controller. IFAC-PapersOnLine, 2015, 48, 837-842.	0.5	3
63	Multi-output partial nonlinear observer normal form. , 2015, , .		3
64	Group sparse LMS for multiple system identification. , 2015, , .		2
65	Modelling and control for position-controlled Modular Robot Manipulators. , 2015, , .		1
66	Unknown input observer for linear time-delay systems. Automatica, 2015, 61, 35-43.	3.0	54
67	Model based Bayesian compressive sensing via Local Beta Process. Signal Processing, 2015, 108, 259-271.	2.1	34
68	Parameters and states estimation for Dengue epidemic model. , 2014, , .		5
69	Finite-time observer for the output depending observer form. , 2014, , .		0
70	Nonlinear observer for the PM synchronous motor. , 2014, , .		4
71	Adaptive observer for simultaneous estimation of state and parameter for a class of nonlinear systems. , 2014, , .		1
72	Observability of linear systems with commensurate delays and unknown inputs. Automatica, 2014, 50, 2077-2083.	3.0	29

#	ARTICLE	IF	CITATIONS
73	Extended output depending normal form. Automatica, 2013, 49, 2192-2198.	3.0	27
74	Identification of the delay parameter for nonlinear time-delay systems with unknown inputs. Automatica, 2013, 49, 1755-1760.	3.0	41
75	Observability and detectability of singular linear systems with unknown inputs. Automatica, 2013, 49, 793-800.	3.0	48
76	Interval state estimation for uncertain nonlinear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 451-456.	0.4	9
77	Bayesian compressive sensing for cluster structured sparse signals. Signal Processing, 2012, 92, 259-269.	2.1	167
78	A triangular canonical form for a class of 0-flat nonlinear systems. International Journal of Control, 2011, 84, 261-269.	1.2	118
79	Finite Time Observer-Based Control of Linear Impulsive Systems with Persistently Acting Impact. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2442-2447.	0.4	7
80	On uniform controller design for linear switched systems. Nonlinear Analysis: Hybrid Systems, 2010, 4, 189-198.	2.1	2
81	Single Output-Dependent Observability Normal Form. SIAM Journal on Control and Optimization, 2007, 46, 2242-2255.	1.1	55