

Gang Zheng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5110843/publications.pdf>

Version: 2024-02-01

81
papers

1,310
citations

393982

19
h-index

377514

34
g-index

82
all docs

82
docs citations

82
times ranked

912
citing authors

#	ARTICLE	IF	CITATIONS
1	Bayesian compressive sensing for cluster structured sparse signals. <i>Signal Processing</i> , 2012, 92, 259-269.	2.1	167
2	A triangular canonical form for a class of 0-flat nonlinear systems. <i>International Journal of Control</i> , 2011, 84, 261-269.	1.2	118
3	Design of interval observer for a class of uncertain unobservable nonlinear systems. <i>Automatica</i> , 2016, 63, 167-174.	3.0	66
4	Interval observer for a class of uncertain nonlinear singular systems. <i>Automatica</i> , 2016, 71, 159-168.	3.0	58
5	Single Output-Dependent Observability Normal Form. <i>SIAM Journal on Control and Optimization</i> , 2007, 46, 2242-2255.	1.1	55
6	Unknown input observer for linear time-delay systems. <i>Automatica</i> , 2015, 61, 35-43.	3.0	54
7	Observability and detectability of singular linear systems with unknown inputs. <i>Automatica</i> , 2013, 49, 793-800.	3.0	48
8	A Model-Based Sensor Fusion Approach for Force and Shape Estimation in Soft Robotics. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 5621-5628.	3.3	47
9	Identification of the delay parameter for nonlinear time-delay systems with unknown inputs. <i>Automatica</i> , 2013, 49, 1755-1760.	3.0	41
10	Dynamical Sparse Recovery With Finite-Time Convergence. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 6146-6157.	3.2	41
11	A nonlinear Luenberger-like observer for nonlinear singular systems. <i>Automatica</i> , 2017, 86, 11-17.	3.0	38
12	Model based Bayesian compressive sensing via Local Beta Process. <i>Signal Processing</i> , 2015, 108, 259-271.	2.1	34
13	Delay estimation via sliding mode for nonlinear time-delay systems. <i>Automatica</i> , 2018, 89, 266-273.	3.0	33
14	Observability of linear systems with commensurate delays and unknown inputs. <i>Automatica</i> , 2014, 50, 2077-2083.	3.0	29
15	Robust control of a silicone soft robot using neural networks. <i>ISA Transactions</i> , 2020, 100, 38-45.	3.1	29
16	Extended output depending normal form. <i>Automatica</i> , 2013, 49, 2192-2198.	3.0	27
17	Observer design for linear singular time-delay systems. <i>Automatica</i> , 2017, 80, 1-9.	3.0	25
18	Event-Triggered State-Feedback and Dynamic Output-Feedback Control of PMJSs With Intermittent Faults. <i>IEEE Transactions on Automatic Control</i> , 2023, 68, 1039-1046.	3.6	25

#	ARTICLE	IF	CITATIONS
19	Event-Triggered Observer Design for Delayed Output-Sampled Systems. IEEE Transactions on Automatic Control, 2020, 65, 4824-4831.	3.6	24
20	Modeling Novel Soft Mechanosensors Based on Air-Flow Measurements. IEEE Robotics and Automation Letters, 2019, 4, 4338-4345.	3.3	19
21	Differentiator application in altitude control for an indoor blimp robot. International Journal of Control, 2018, 91, 2121-2130.	1.2	17
22	Dynamical sparse signal recovery with fixed-time convergence. Signal Processing, 2019, 162, 65-74.	2.1	17
23	FEM-Based Gain-Scheduling Control of a Soft Trunk Robot. IEEE Robotics and Automation Letters, 2021, 6, 3081-3088.	3.3	17
24	Efficient spatial compliance analysis of general initially curved beams for mechanism synthesis and optimization. Mechanism and Machine Theory, 2021, 162, 104343.	2.7	17
25	Quadrotor stabilization under time and space constraints using implicit PID controller. Journal of the Franklin Institute, 2022, 359, 1505-1530.	1.9	15
26	Rotor speed, load torque and parameters estimations of a permanent magnet synchronous motor using extended observer forms. IET Control Theory and Applications, 2017, 11, 1485-1492.	1.2	14
27	Partial observer normal form for nonlinear system. Automatica, 2016, 64, 54-62.	3.0	11
28	Control of a Silicone Soft Tripod Robot via Uncertainty Compensation. IEEE Robotics and Automation Letters, 2020, 5, 2801-2807.	3.3	11
29	Observability of singular time-delay systems with unknown inputs. Systems and Control Letters, 2016, 89, 55-60.	1.3	10
30	A comprehensive static modeling methodology via beam theory for compliant mechanisms. Mechanism and Machine Theory, 2022, 169, 104598.	2.7	10
31	Interval state estimation for uncertain nonlinear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 451-456.	0.4	9
32	Impulsive fixed-time observer for linear time-delay systems. Journal of the Franklin Institute, 2018, 355, 3354-3366.	1.9	9
33	Impulsive observer design for linear systems with delayed outputs. IFAC-PapersOnLine, 2017, 50, 1263-1268.	0.5	8
34	Observability of singular systems with commensurate time-delays and neutral terms. Automatica, 2017, 85, 462-467.	3.0	8
35	Adaptive Observer for Simultaneous State and Parameter Estimations for an Output Depending Normal Form. Asian Journal of Control, 2017, 19, 356-361.	1.9	8
36	Disturbance compensation based controller for an indoor blimp robot. Robotics and Autonomous Systems, 2020, 124, 103402.	3.0	8

#	ARTICLE	IF	CITATIONS
37	Generalized homogenization of linear controllers: Theory and experiment. International Journal of Robust and Nonlinear Control, 2021, 31, 3455-3479.	2.1	8
38	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
39	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
40	Unknown input functional observability of descriptor systems with neutral and distributed delay effects. Automatica, 2017, 85, 186-192.	3.0	7
41	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
42	Observer design for a class of nonlinear singular systems. , 2016, , .		6
43	Finite-time estimation for linear time-delay systems via homogeneous method. International Journal of Control, 2019, 92, 1252-1263.	1.2	6
44	FEM-based trajectory tracking control of a soft trunk robot. Robotics and Autonomous Systems, 2022, 150, 103961.	3.0	6
45	Parameters and states estimation for Dengue epidemic model. , 2014, , .		5
46	Finite-time unknown input observer for linear time-delay systems. , 2016, , .		5
47	FEM Based Workspace Estimation for Soft Robots: a Forward-Backward Interval Analysis Approach. , 2020, , .		5
48	Discrete Cosserat Method for Soft Manipulators Workspace Estimation: An Optimization-Based Approach. Journal of Mechanisms and Robotics, 2022, 14, .	1.5	5
49	Generalized homogenization of linear observers: Theory and experiment. International Journal of Robust and Nonlinear Control, 2021, 31, 7971-7984.	2.1	5
50	Theoretical Analysis on Nonlinear Buckling, Post-Buckling of Slender Beams and Bi-Stable Mechanisms. Journal of Mechanisms and Robotics, 2022, 14, .	1.5	5
51	Nonlinear observer for the PM synchronous motor. , 2014, , .		4
52	Finite-time observer for linear system with time delay. , 2016, , .		4
53	Estimation of unknown input for linear systems with commensurate delays. , 2017, , .		4
54	Workspace Boundary Estimation for Soft Manipulators Using a Continuation Approach. IEEE Robotics and Automation Letters, 2021, 6, 7169-7176.	3.3	4

#	ARTICLE	IF	CITATIONS
55	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
56	Modelling and control of actuators with built-in position controller. IFAC-PapersOnLine, 2015, 48, 837-842.	0.5	3
57	Multi-output partial nonlinear observer normal form. , 2015, , .		3
58	A simple finite-time observer for linear time-delay systems. , 2016, , .		3
59	Identifiability and Observability of Nonlinear Time-Delay Systems with Unknown Inputs. Advances in Delays and Dynamics, 2016, , 385-403.	0.4	3
60	Finite-time and asymptotic left inversion of nonlinear time-delay systems. Automatica, 2018, 95, 283-292.	3.0	3
61	Event-triggered observer design for output-sampled systems. Nonlinear Analysis: Hybrid Systems, 2021, 43, 101112.	2.1	3
62	FEM-Based Exterior Workspace Boundary Estimation for Soft Robots via Optimization. IEEE Robotics and Automation Letters, 2022, 7, 3672-3678.	3.3	3
63	FEM-Based Nonlinear Controller for a Soft Trunk Robot. IEEE Robotics and Automation Letters, 2022, 7, 5735-5740.	3.3	3
64	On uniform controller design for linear switched systems. Nonlinear Analysis: Hybrid Systems, 2010, 4, 189-198.	2.1	2
65	Group sparse LMS for multiple system identification. , 2015, , .		2
66	Unknown input functional observability of descriptor systems with delays. , 2016, , .		2
67	Delay estimation for nonlinear time-delay systems. , 2016, , .		2
68	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
69	Adaptive observer for simultaneous estimation of state and parameter for a class of nonlinear systems. , 2014, , .		1
70	Modelling and control for position-controlled Modular Robot Manipulators. , 2015, , .		1
71	Algorithm to Compute Nonlinear Partial Observer Normal Form With Multiple Outputs. IEEE Transactions on Automatic Control, 2020, 65, 2700-2707.	3.6	1
72	Observability and observer design of time-delay linear systems with unknown inputs. , 2021, , 209-239.		1

#	ARTICLE	IF	CITATIONS
73	Finite-time observer for the output depending observer form. , 2014, , .		0
74	Observability analysis of linear singular time-delay systems. , 2017, , .		0
75	Luenberger-like observer for linear singular system with commensurate delay. , 2017, , .		0
76	Impulsive Observer for Linear Singular Time-Delay Systems. , 2018, , .		0
77	Extension to Nonlinear Dynamical Systems with Multiple Outputs. Lecture Notes in Control and Information Sciences, 2021, , 143-172.	0.6	0
78	Observer Normal Form by Means of Extended Dynamics. Lecture Notes in Control and Information Sciences, 2021, , 91-106.	0.6	0
79	Extension to Nonlinear Singular Dynamical Systems. Lecture Notes in Control and Information Sciences, 2021, , 173-189.	0.6	0
80	Output-Depending Observer Normal Form. Lecture Notes in Control and Information Sciences, 2021, , 107-126.	0.6	0
81	Soft manipulator control via gain-scheduling strategy. , 2021, , .		0