## Feng Xu

## List of Publications by Year in descending order

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567144 610775 42 653 15 24 citations h-index g-index papers 43 43 43 399 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Recursive sliding mode control with adaptive disturbance observer for a linear motor positioner. Mechanical Systems and Signal Processing, 2021, 146, 107014.	4.4	105
2	Actuator-fault detection and isolation based on set-theoretic approaches. Journal of Process Control, 2014, 24, 947-956.	1.7	46
3	Adaptive sliding mode control for uncertain Euler–Lagrange systems with input saturation. Journal of the Franklin Institute, 2021, 358, 8356-8376.	1.9	43
4	Mixed Active/Passive Robust Fault Detection and Isolation Using Set-Theoretic Unknown Input Observers. IEEE Transactions on Automation Science and Engineering, 2018, 15, 863-871.	3.4	40
5	Generalized setâ€theoretic unknown input observer for LPV systems with application to state estimation and robust fault detection. International Journal of Robust and Nonlinear Control, 2017, 27, 3812-3832.	2.1	38
6	Set-theoretic methods in robust detection and isolation of sensor faults. International Journal of Systems Science, 2015, 46, 2317-2334.	3.7	29
7	Sensorâ€fault tolerance using robust MPC with setâ€based state estimation and active fault isolation. International Journal of Robust and Nonlinear Control, 2017, 27, 1260-1283.	2.1	28
8	Robust fault detection and isolation based on zonotopic unknown input observers for discrete-time descriptor systems. Journal of the Franklin Institute, 2019, 356, 5293-5314.	1.9	27
9	Observer-based asymptotic active fault diagnosis: A two-layer optimization framework. Automatica, 2021, 128, 109558.	3.0	26
10	Robust Fault Detection and Set-Theoretic UIO for Discrete-Time LPV Systems With State and Output Equations Scheduled by Inexact Scheduling Variables. IEEE Transactions on Automatic Control, 2019, 64, 4982-4997.	3.6	25
11	A novel design of unknown input observers using set-theoretic methods for robust fault detection. , 2016, , .		21
12	Conservatism comparison of set-based robust fault detection methods: Set-theoretic UIO and interval observer cases. Automatica, 2019, 105, 307-313.	3.0	20
13	Set-based guaranteed active fault diagnosis for LPV systems with unknown bounded uncertainties. Automatica, 2021, 128, 109602.	3.0	20
14	Invariant Set-Based Analysis of Minimal Detectable Fault for Discrete-Time LPV Systems With Bounded Uncertainties. IEEE Access, 2019, 7, 152564-152575.	2.6	17
15	ZKF-based optimal robust fault estimation of descriptor LPV systems with measurement error-affected scheduling variables. ISA Transactions, 2019, 94, 119-134.	3.1	16
16	Combining set-theoretic UIO and invariant sets for optimal guaranteed robust fault detection and isolation. Journal of Process Control, 2019, 78, 155-169.	1.7	15
17	A Novel Online Active Fault Diagnosis Method Based on Invariant Sets. , 2021, 5, 457-462.		15
18	Optimal robust fault detection of discreteâ€time LPV systems with measurement errorâ€affected scheduling variables combining ZKF and pQP. International Journal of Robust and Nonlinear Control, 2020, 30, 6782-6802.	2.1	13

#	Article	IF	Citations
19	Design of optimal interval observers using setâ€theoretic methods for robust state estimation. International Journal of Robust and Nonlinear Control, 2020, 30, 3692-3705.	2.1	12
20	A Novel Set-Theoretic Interval Observer for Discrete Linear Time-Invariant Systems. IEEE Transactions on Automatic Control, 2021, 66, 773-780.	3.6	12
21	Chattering-free adaptive sliding-mode control of nonlinear systems with unknown disturbances. Computers and Electrical Engineering, 2021, 96, 107538.	3.0	10
22	Improvements on stability conditions and control design of Takagi–Sugeno fuzzy descriptor systems. ISA Transactions, 2021, , .	3.1	7
23	Admissibility Analysis and Robust \${H_infty }\$ Control for Tâ€"S Fuzzy Descriptor Systems With Structured Parametric Uncertainties. IEEE Transactions on Fuzzy Systems, 2021, 29, 3192-3200.	6.5	7
24	Invariant set-based robust fault detection and optimal fault estimation for discrete-time LPV systems with bounded uncertainties. International Journal of Systems Science, 2019, 50, 2962-2978.	3.7	6
25	Robust state estimation and fault detection combining unknown input observer and set-membership approach. , 2016, , .		5
26	Modeling and Control of Free-Floating Space Manipulator Using the T-S Fuzzy Descriptor System Approach. , 2019, , .		5
27	Interval setâ€membership estimation for continuous linear systems. International Journal of Robust and Nonlinear Control, 2020, 30, 5305-5321.	2.1	5
28	Multiple actuator-fault detectability analysis using invariant sets for discrete-time LPV systems. International Journal of Systems Science, 2020, 51, 3451-3470.	3.7	5
29	Minimal Detectable and Isolable Faults of Active Fault Diagnosis. IEEE Transactions on Automatic Control, 2023, 68, 1138-1145.	3.6	4
30	Analysis of set-theoretic unknown input observer and interval observer in robust fault detection. , $2016,  ,  .$		3
31	LPV Model-Based Gain-Scheduled Control of a Space Manipulator. , 2018, , .		3
32	Set-based Active Fault Diagnosis for Discrete-time Linear Descriptor Systems. , 2019, , .		3
33	Adaptive chattering-free terminal sliding mode control for a coordinate measuring machine system. Computers and Electrical Engineering, 2021, 96, 107486.	3.0	3
34	Interval Observer for Discrete Periodic Time-varying Descriptor Systems. IFAC-PapersOnLine, 2020, 53, 4493-4498.	0.5	3
35	Zonotopic Unknown Input Observer of Discrete-time Descriptor Systems for State Estimation and Robust Fault Detection. IFAC-PapersOnLine, 2018, 51, 307-313.	0.5	2
36	A Novel RPI Set Computation Method for Discrete-time LPV Systems with Bounded Uncertainties. , 2019, , .		2

#	Article	IF	CITATIONS
37	Generalized set-theoretic interval observer using element-wise nonnegativity transformation. Automatica, 2021, 125, 109452.	3.0	2
38	Reinforcement learning-based integrated active fault diagnosis and tracking control. ISA Transactions, 2023, 132, 364-376.	3.1	2
39	Invariant-set based minimal detectable fault computation of discrete-time LPV systems with bounded uncertainties., 2019,,.		1
40	Admissibility Analysis and Robust Stabilization via State Feedback for Uncertain T-S Fuzzy Descriptor Systems., 2020,,.		0
41	Robust Fault Detection and Isolation of Discrete-Time LPV Systems Combining Set-theoretic UIO and Invariant Sets. IFAC-PapersOnLine, 2020, 53, 724-729.	0.5	O
42	Trigonometric-Type Sliding Mode Control With Exact Convergence Time., 2022, 6, 2389-2394.		0