

# Yaogang Chen

## List of Publications by Year in descending order

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60  
papers

1,026  
citations

567281

15  
h-index

434195

31  
g-index

60  
all docs

60  
docs citations

60  
times ranked

827  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solving the Zero-Sum Control Problem for Tidal Turbine System: An Online Reinforcement Learning Approach. IEEE Transactions on Cybernetics, 2023, 53, 7635-7647.	9.5	11
2	Bayesian Inference for State-Space Models With Student- <i>t</i> Mixture Distributions. IEEE Transactions on Cybernetics, 2023, 53, 4435-4445.	9.5	27
3	A resource-aware sliding mode control approach for Markov jump systems. ISA Transactions, 2022, 124, 318-325.	5.7	8
4	Asynchronous Fault Detection for Interval Type-2 Fuzzy Nonhomogeneous Higher Level Markov Jump Systems With Uncertain Transition Probabilities. IEEE Transactions on Fuzzy Systems, 2022, 30, 2487-2499.	9.8	121
5	Confidence set-membership state estimation for LPV systems with inexact scheduling variables. ISA Transactions, 2022, 122, 38-48.	5.7	4
6	Sensor Fault Estimation in a Probabilistic Framework for Industrial Processes and its Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 387-396.	11.3	13
7	A Fusion Kalman Filter and UFIR Estimator Using the Influence Function Method. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 709-718.	13.1	6
8	Isolation method of <i>Saccharomyces cerevisiae</i> from red blood cells based on the optically induced dielectrophoresis technique for the rapid detection of fungal infections. Biomedical Optics Express, 2022, 13, 559.	2.9	3
9	Finite-frequency self-triggered model predictive control for Markov jump systems subject to actuator saturation. Transactions of the Institute of Measurement and Control, 2022, 44, 2406-2417.	1.7	1
10	Multitask Maximum Likelihood Identification for ARX Model With Multisensor. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	4
11	Asynchronous Output Feedback Control for a Class of Conic-Type Nonlinear Hidden Markov Jump Systems Within a Finite-Time Interval. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7644-7651.	9.3	81
12	Dynamic Self-Triggered Controller Codesign for Markov Jump Systems. IEEE Transactions on Automatic Control, 2021, 66, 1353-1360.	5.7	49
13	Multi-manifold NIRS modelling via stacked contractive autoencoders. Canadian Journal of Chemical Engineering, 2021, 99, 1363-1373.	1.7	2
14	Measurement Method of <i>Akkermansia muciniphila</i> by Graphene-Based Transistor for Diseases Diagnosis. IEEE Nanotechnology Magazine, 2021, 20, 332-337.	2.0	2
15	Label-free rapid detection of invasive <i>S. cerevisiae</i> infections with optically induced dielectrophoresis-based micromanipulation and graphene transistor. IEEE Sensors Journal, 2021, , 1-1.	4.7	4
16	Finite-time higher-order moment state estimation for Markov jump linear system with time-correlated measurement noise. Transactions of the Institute of Measurement and Control, 2021, 43, 2103-2110.	1.7	0
17	Finite-time asynchronous dissipative filtering of conic-type nonlinear Markov jump systems. Science China Information Sciences, 2021, 64, 1.	4.3	68
18	Prediction of Social Ownership of Typical Household Appliances Based on Improved Grey Models. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	optimal control for semi-Markov jump linear systems via TP-free temporal difference () learning. International Journal of Robust and Nonlinear Control, 2021, 31, 6905-6916.	3.7	4
20	A novel encapsulating method of pasteurized Akkermansia muciniphila with double-network hydrogel microstructures by a digital mask printing system. , 2021, , .		0
21	Trend similarity MWPCA based fault monitoring for xylenol tail gas treatment process. , 2021, , .		0
22	Reinforcement learning and adaptive optimization of a class of Markov jump systems with completely unknown dynamic information. Neural Computing and Applications, 2020, 32, 14311-14320.	5.6	47
23	Observer-Based Asynchronous Fault Detection for Conic-Type Nonlinear Jumping Systems and its Application to Separately Excited DC Motor. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 951-962.	5.4	92
24	Multilevel LASSO-based NIR temperature-correction modeling for viscosity measurement of bisphenol-A. ISA Transactions, 2020, 107, 206-213.	5.7	7
25	Robust control for Markov jump linear systems with unknown transition probabilities " an online temporal differences approach. Transactions of the Institute of Measurement and Control, 2020, 42, 3043-3051.	1.7	3
26	Integrated Metabolic and Kinetic Modeling for Lysine Production. Industrial & Engineering Chemistry Research, 2020, 59, 11012-11021.	3.7	0
27	Finite-time asynchronous resilient observer design of a class of non-linear switched systems with time-delays and uncertainties. IET Control Theory and Applications, 2020, 14, 952-963.	2.1	10
28	Robust finite-time control and estimation for uncertain time-delayed switched systems by observer-based sliding mode technique. Optimal Control Applications and Methods, 2020, 41, 1813-1830.	2.1	12
29	High-order moment stabilization for Markov jump systems with attenuation rate. Journal of the Franklin Institute, 2019, 356, 9677-9688.	3.4	3
30	Derandomisation-based multiple frequency control for stochastic Markov jump systems. International Journal of Systems Science, 2019, 50, 91-103.	5.5	1
31	High-Order Moment Filtering for Markov Jump Systems in Finite Frequency Domain. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1217-1221.	3.0	15
32	Process Pattern-Based Near-Infrared Spectroscopy (NIRS) Fault Detection Using a Potential Function. Applied Spectroscopy, 2019, 73, 403-414.	2.2	0
33	Finite-time stabilisation for a class of time-delayed Markovian jumping systems with conic nonlinearities. IET Control Theory and Applications, 2019, 13, 1279-1283.	2.1	15
34	O-cresol Concentration Online Measurement Based On Near Infrared Spectroscopy Via Partial Least Square Regression. Journal of Visualized Experiments, 2019, , .	0.3	0
35	Higher order moment stability region for Markov jump systems based on cumulant generating function. Automatica, 2018, 93, 389-396.	5.0	27
36	Given-time consensus for stochastic Markov jump networks by dynamic output feedback. Transactions of the Institute of Measurement and Control, 2018, 40, 3160-3168.	1.7	3

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37	Finite-frequency fault detection based on derandomisation for Markov jump linear system. IET Control Theory and Applications, 2018, 12, 1148-1155.	2.1	16
38	High-Order Moment Recursive State Estimation of Markov Jump Linear Systems. IEEE Access, 2018, 6, 70788-70793.	4.2	3
39	Probabilistic PCR based near-infrared modeling with temperature compensation. ISA Transactions, 2018, 81, 46-51.	5.7	4
40	Prediction uncertainty of new product development based on the T-PLS model. , 2018, , .		0
41	Model Predictive Control of Mineral Column Flotation Process. Mathematics, 2018, 6, 100.	2.2	5
42	Fault Detection Based on Near-Infrared Spectra for the Oil Desalting Process. Applied Spectroscopy, 2018, 72, 1199-1204.	2.2	4
43	Stochastic given-time $H_\infty$ consensus over Markov jump networks with disturbance constraint. Transactions of the Institute of Measurement and Control, 2017, 39, 1253-1261.	1.7	4
44	Compensator design based on inverted decoupling for non-square processes. IET Control Theory and Applications, 2017, 11, 996-1005.	2.1	7
45	Interaction measurement for complex multivariable models with various reference inputs based on RNCA. , 2017, , .		3
46	Corrigendum to "Stabilizing Parametric Region of Multiloop PID Controllers for Multivariable Systems Based on Equivalent Transfer Function". Mathematical Problems in Engineering, 2017, 2017, 1-1.	1.1	0
47	Stochastic consensus control with finite frequency specification for Markov jump networks. International Journal of Robust and Nonlinear Control, 2016, 26, 2961-2974.	3.7	12
48	Stochastic finite-time consensualisation for Markov jump networks with disturbance. IET Control Theory and Applications, 2015, 9, 2340-2347.	2.1	9
49	Robust Fault Detection and Diagnosis for Multiple-Model Systems with Uncertainties ... This work is supported in part by NSERC, AITF and China Scholarship Council Scholarship.. IFAC-PapersOnLine, 2015, 48, 137-142.	0.9	6
50	Finite-Time Stabilization of Switching Markov Jump Systems with Uncertain Transition Rates. Circuits, Systems, and Signal Processing, 2015, 34, 3741-3756.	2.0	34
51	$H_\infty$ filtering for discrete-time Markov jump systems with unknown transition probabilities. International Journal of Adaptive Control and Signal Processing, 2014, 28, 138-148.	4.1	23
52	Finite-time $H_\infty$ control with average dwell-time constraint for time-delay Markov jump systems governed by deterministic switches. IET Control Theory and Applications, 2014, 8, 968-977.	2.1	15
53	Observer Based Finite-Time Stabilization for Discrete-Time Markov Jump Systems with Gaussian Transition Probabilities. Circuits, Systems, and Signal Processing, 2014, 33, 3019-3035.	2.0	7
54	Centralized PI control for high dimensional multivariable systems based on equivalent transfer function. ISA Transactions, 2014, 53, 1554-1561.	5.7	28

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55	H <sub>∞</sub> Control for Discrete-Time Markov Jump Systems With Uncertain Transition Probabilities. IEEE Transactions on Automatic Control, 2013, 58, 1566-1572.	5.7	104
56	Finite-time stabilisation for Markov jump systems with Gaussian transition probabilities. IET Control Theory and Applications, 2013, 7, 298-304.	2.1	38
57	Risk-sensitive filtering for nonlinear Markov jump systems on the basis of particle approximation. International Journal of Adaptive Control and Signal Processing, 2012, 26, 158-170.	4.1	6
58	Observer-based finite-time stabilization for extended Markov jump systems. Asian Journal of Control, 2011, 13, 925-935.	3.0	14
59	Robust adaptive control for greenhouse climate using neural networks. International Journal of Robust and Nonlinear Control, 2011, 21, 815-826.	3.7	41
60	Iterative Maximum Likelihood FIR Filter for State-Space Models with Time-Stamped Delayed and Missing Data. Circuits, Systems, and Signal Processing, 0, , .	2.0	0