

# Fucheng Liao

## List of Publications by Year in descending order

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78  
papers

721  
citations

566801

15  
h-index

642321

23  
g-index

78  
all docs

78  
docs citations

78  
times ranked

297  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal preview control for a linear continuous-time stochastic control system in finite-time horizon. <i>International Journal of Systems Science</i> , 2017, 48, 129-137.	3.7	52
2	Cooperative optimal preview tracking for linear descriptor multi-agent systems. <i>Journal of the Franklin Institute</i> , 2019, 356, 908-934.	1.9	42
3	DESIGN OF AN OPTIMAL PREVIEW CONTROLLER FOR CONTINUOUS-TIME SYSTEMS. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2011, 09, 655-673.	0.9	38
4	Design of an optimal preview controller for linear discrete-time descriptor systems with state delay. <i>International Journal of Systems Science</i> , 2015, 46, 932-943.	3.7	38
5	Parameter-dependent preview control with robust tracking performance. <i>IET Control Theory and Applications</i> , 2017, 11, 38-46.	1.2	36
6	Cooperative optimal preview tracking control of continuous-time multi-agent systems. <i>International Journal of Control</i> , 2016, 89, 2019-2028.	1.2	33
7	Robust preview control for a class of uncertain discrete-time systems with time-varying delay. <i>ISA Transactions</i> , 2018, 73, 11-21.	3.1	33
8	Preview control for impulse-free continuous-time descriptor systems. <i>International Journal of Control</i> , 2015, 88, 1142-1149.	1.2	29
9	Adaptive preview control for piecewise discrete-time systems using multiple models. <i>Applied Mathematical Modelling</i> , 2016, 40, 9932-9946.	2.2	28
10	Design of an optimal preview controller for linear discrete-time causal descriptor systems. <i>International Journal of Control</i> , 2012, 85, 1616-1624.	1.2	23
11	Cooperative preview tracking problem of discrete-time linear multi-agent systems: A distributed output regulation approach. <i>ISA Transactions</i> , 2019, 85, 33-48.	3.1	22
12	Cooperative global optimal preview tracking control of linear multi-agent systems: an internal model approach. <i>International Journal of Systems Science</i> , 2017, 48, 2451-2462.	3.7	21
13	The pacemaker role of thalamic reticular nucleus in controlling spike-wave discharges and spindles. <i>Chaos</i> , 2017, 27, 073103.	1.0	21
14	Optimal preview control for discrete-time descriptor causal systems in a multirate setting. <i>International Journal of Control</i> , 2013, 86, 844-854.	1.2	17
15	An improved delay-dependent stability criterion for linear uncertain systems with multiple time-varying delays. <i>International Journal of Control</i> , 2014, 87, 861-873.	1.2	17
16	PREVIEW CONTROL FOR A CLASS OF LINEAR CONTINUOUS TIME-VARYING SYSTEMS. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2013, 11, 1350018.	0.9	15
17	Design of Preview Controller for Linear Continuous-time Systems with Input Delay. <i>International Journal of Control, Automation and Systems</i> , 2018, 16, 1080-1090.	1.6	15
18	Tracking Controller Design with Preview Action for a Class of Lipschitz Nonlinear Systems and its Applications. <i>Circuits, Systems, and Signal Processing</i> , 2020, 39, 2922-2947.	1.2	12

#	ARTICLE	IF	CITATIONS
19	<i>H<sub>∞</sub></i> Preview Control of A Class of Uncertain Discrete-Time Systems. <i>Asian Journal of Control</i> , 2017, 19, 1542-1556.	1.9	11
20	Stabilization of Coupled ODE&PDE System with Intermediate Point and Spatially Varying Effects Interconnection. <i>Asian Journal of Control</i> , 2017, 19, 1060-1074.	1.9	11
21	Application of the Preview Control Method to the Optimal Tracking Control Problem for Continuous-Time Systems with Time-Delay. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-8.	0.6	10
22	Robust preview control for uncertain discrete-time systems based on LMI. <i>Optimal Control Applications and Methods</i> , 2017, 38, 1022-1031.	1.3	9
23	The preview control of a class of linear systems and its application in the fault-tolerant control theory. <i>International Journal of Systems Science</i> , 2019, 50, 1017-1027.	3.7	9
24	Robust Tracking Control with Preview Action for Uncertain Discrete-time Systems. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 719-729.	1.6	9
25	New results on observer-based robust preview tracking control for Lipschitz nonlinear systems. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 2081-2096.	1.5	9
26	Observer-based decentralized robust <i>H<sub>∞</sub></i> output tracking control with preview action for uncertain and disturbed nonlinear interconnected systems. <i>Asian Journal of Control</i> , 2022, 24, 626-641.	1.9	9
27	Absolute stability of Lurie direct control systems with time-varying coefficients and multiple nonlinearities. <i>Applied Mathematics and Computation</i> , 2013, 219, 4465-4473.	1.4	7
28	Robust preview tracking control for a class of uncertain discrete-time systems. <i>Cogent Engineering</i> , 2016, 3, 1243033.	1.1	7
29	Preview Tracking Control for a Class of Differentiable Nonlinear Systems. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 3259-3268.	1.7	7
30	Preview control for a class of linear stochastic systems with multiplicative noise. <i>International Journal of Systems Science</i> , 2019, 50, 2592-2603.	3.7	7
31	Design of a Backstepping Tracking Controller for a Class of Linear Systems with Actuator Delay. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-10.	0.6	6
32	Absolute stability of time-varying delay Lurie indirect control systems with unbounded coefficients. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	6
33	Design of a robust <i>H<sub>∞</sub></i> preview controller for a class of uncertain discrete-time systems. <i>Transactions of the Institute of Measurement and Control</i> , 2018, 40, 2639-2650.	1.1	6
34	Optimal Preview Control for Linear Discrete-Time Periodic Systems. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-11.	0.6	6
35	Output feedback preview tracking control for discrete-time polytopic time-varying systems. <i>International Journal of Control</i> , 2019, 92, 2979-2989.	1.2	6
36	Observer-based trajectory tracking control with preview action for a class of discrete-time Lipschitz nonlinear systems and its applications. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402092265.	0.8	6

#	ARTICLE	IF	CITATIONS
37	Design of an Optimal Preview Controller for Linear Discrete-Time Descriptor Noncausal Multirate Systems. Scientific World Journal, The, 2014, 2014, 1-11.	0.8	5
38	Design of an optimal preview controller for linear time-varying discrete systems in a multirate setting. International Journal of Wavelets, Multiresolution and Information Processing, 2015, 13, 1550050.	0.9	5
39	Preview tracking control for discrete-time nonlinear Lurâ€™e systems with sector-bounded nonlinearities. Transactions of the Institute of Measurement and Control, 2019, 41, 2726-2737.	1.1	5
40	Output tracking control with preview action for a class of continuous-time Lipschitz nonlinear systems and its applications. JVC/Journal of Vibration and Control, 2020, 26, 2081-2091.	1.5	5
41	Design of Optimal Output Regulators for Dual-Rate Linear Discrete-Time Systems Based on the Lifting Technique. Mathematical Problems in Engineering, 2016, 2016, 1-10.	0.6	4
42	Optimal preview control for a class of linear continuous-time large-scale systems. Transactions of the Institute of Measurement and Control, 2018, 40, 4004-4013.	1.1	4
43	Preview tracking control for a class of discrete-time Lipschitz non-linear time-delay systems. IMA Journal of Mathematical Control and Information, 2019, 36, 849-867.	1.1	4
44	Hâ€™ decentralised output feedback preview tracking control via state observer for a class of nonlinear disturbed interconnected discrete systems. International Journal of Control, 2020, , 1-17.	1.2	4
45	Absolute Stability Criteria for Large-Scale Lurie Direct Control Systems with Time-Varying Coefficients. Scientific World Journal, The, 2014, 2014, 1-13.	0.8	3
46	Novel Approach to Preview Control for a Class of Continuous-Time Systems. Journal of Control Science and Engineering, 2015, 2015, 1-6.	0.8	3
47	The Application of Predictor Feedback in Designing a Preview Controller for Discrete-Time Systems with Input Delay. Mathematical Problems in Engineering, 2016, 2016, 1-10.	0.6	3
48	Robust Preview Control for a Class of Uncertain Discrete-Time Lipschitz Nonlinear Systems. Mathematical Problems in Engineering, 2018, 2018, 1-15.	0.6	3
49	Preview Control for MIMO Discrete-Time System with Parameter Uncertainty. Mathematics, 2020, 8, 756.	1.1	3
50	Finite-Time Bounded Tracking Control for Fractional-Order Systems. IEEE Access, 2021, 9, 11014-11023.	2.6	3
51	Necessary and sufficient conditions for stabilisability of discreteâ€™time timeâ€™varying switched systems. IET Control Theory and Applications, 2021, 15, 446-458.	1.2	3
52	Face recognition based on discriminant waveletfaces. , 2007, , .		2
53	Robust preview control for uncertain discrete-time systems. AIP Conference Proceedings, 2012, , .	0.3	2
54	The optimal preview control for a class of descriptor discrete-time systems with multirate setting. , 2012, , .		2

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55	Optimal Preview Control for Discrete-Time Systems in Multirate Output Sampling. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-10.	0.6	2
56	Applications of the preview control method to the optimal problem for linear continuous-time stochastic systems with time-delay. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2016, 14, 1650045.	0.9	2
57	Robust Preview Control for Uncertain Discrete Singular Systems. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-9.	0.6	2
58	Preview control for continuous-time singular stochastic systems. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2019, 17, 1950037.	0.9	2
59	Impulse Elimination and Fault-Tolerant Preview Controller Design for a Class of Descriptor Systems. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-13.	0.6	2
60	Design of an optimal preview controller for linear discrete-time periodic systems. <i>Transactions of the Institute of Measurement and Control</i> , 2021, 43, 2637-2646.	1.1	2
61	Optimal Tracking Control for Discrete-time Systems with Time-delay Based on the Preview Control Method. <i>Journal of Systems Science and Information</i> , 2019, 7, 452-461.	0.2	2
62	Decentralized robust preview control for uncertain continuous-time interconnected systems. <i>JVC/Journal of Vibration and Control</i> , 2023, 29, 1700-1712.	1.5	2
63	Design of a P-D feedback controller for continuous-time descriptor systems. , 2014, , .		1
64	Optimal Preview Control for a Class of Linear Continuous Stochastic Control Systems in the Infinite Horizon. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-9.	0.6	1
65	A design method of preview controller for linear continuous-time systems with multiple input delays. , 2017, , .		1
66	Absolute stability of large-scale time-delay Lurie indirect control systems with unbounded coefficients. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	1
67	Finite-Time Bounded Tracking Control for Linear Discrete-Time Systems. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-10.	0.6	1
68	Preview Tracking Control for Continuous-Time Singular Interconnected Systems. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-13.	0.6	1
69	Preview Tracking Control of Linear Periodic Switched Systems with Dwell Time. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-9.	0.6	1
70	Design of preview controller for a type of discrete-time interconnected systems. <i>Measurement and Control</i> , 2020, 53, 719-729.	0.9	1
71	Design of an Optimal Preview Controller for Dual-Rate Linear Discrete-Time Systems. <i>Journal of Systems Science and Information</i> , 2018, 6, 178-192.	0.2	1
72	Boundary Control for a Kind of Coupled PDE-ODE System. <i>Journal of Control Science and Engineering</i> , 2014, 2014, 1-8.	0.8	0

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73	Global Analysis of a Delayed Impulsive Lotka-Volterra Model with Holling III Type Functional Response. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-15.	0.6	0
74	Optimal Control of Renewable Resources Based on the Effective Utilization Rate. <i>Abstract and Applied Analysis</i> , 2015, 2015, 1-7.	0.3	0
75	Optimal preview control for seismic-excited active damping mechanical systems with earthquake actions. , 2017, , .		0
76	Design of an Optimal Preview Controller for a Class of Linear Discrete-Time Descriptor Systems. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-9.	0.6	0
77	Design of nonlinear optimal tracking control law based on finite-time stability for quadratic performance index. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 0, , 2150031.	0.9	0
78	Analysis of Predictor Feedback for Time-Varying Delays that may Assume Zero Value. , 2020, , .		0