

# Feng Lin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134  
papers

2,906  
citations

30  
h-index

49  
g-index

154  
ext. papers

3,577  
ext. citations

4.1  
avg, IF

5.69  
L-index

#	Paper	IF	Citations
134	Stochastic Observability and Convergent Analog State Estimation of Randomly Switched Linear Systems with Unobservable Subsystems. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9	0
133	A Discrete-Event System Approach for Modeling and Mitigating Power System Cascading Failures. <i>IEEE Transactions on Control Systems Technology</i> , <b>2022</b> , 1-14	4.8	0
132	Weak Diagnosability of Discrete Event Systems. <i>IEEE Transactions on Control of Network Systems</i> , <b>2021</b> , 1-1	4	
131	On Observability of Hybrid Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	0
130	Nonblocking and deterministic decentralized control for networked discrete event systems under communication delays. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>2021</b> , 31, 295-315	1	
129	Lossless Event Compression of Discrete Event Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 2312-2318	5.9	0
128	Detectability of Discrete-Event Systems Under Nondeterministic Observations. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 18, 1315-1327	4.9	1
127	On Controllability of Hybrid Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 3243-3250	5.9	2
126	Modeling and Control of Probabilistic Fuzzy Discrete Event Systems. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2021</b> , 1-10	4.1	1
125	Online Supervisory Control of Networked Discrete-Event Systems with Control Delays. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	1
124	Information control in networked discrete event systems and its application to battery management systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>2020</b> , 30, 243-268	1	2
123	On Detectabilities of Fuzzy Discrete Event Systems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	1
122	Weak Diagnosability of Discrete Event Systems. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 338-343	0.7	1
121	Relative Network Observability and Its Relation With Network Observability. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 3584-3591	5.9	4
120	Modeling and Control of Networked Discrete-Event Systems <b>2020</b> , 1-27		0
119	. <i>IEEE Transactions on Control of Network Systems</i> , <b>2020</b> , 7, 176-186	4	2
118	State Estimation of Multichannel Networked Discrete Event Systems. <i>IEEE Transactions on Control of Network Systems</i> , <b>2020</b> , 7, 53-63	4	9

117	Online Self-Learning Fuzzy Discrete Event Systems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 28, 2185-2194	8	8
116	Supervisory Control Of Discrete Event Systems Under Nondeterministic Observations <b>2019</b> ,		1
115	Optimal Information Release for Mixed Opacity in Discrete-Event Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2019</b> , 16, 1960-1970	4.9	8
114	Hybrid Control of Networked Battery Systems. <i>IEEE Transactions on Sustainable Energy</i> , <b>2019</b> , 10, 1109-1119	1.9	8
113	Detectability Measure for State Estimation of Discrete Event Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 433-439	5.9	9
112	Fuzzy Discrete Event Systems with Gradient-Based Online Learning <b>2019</b> ,		5
111	Predictive Supervisory Control for Timed Discrete Event Systems under Communication Delays <b>2019</b> ,		1
110	A Unifying Approach to Maximal Permissiveness in Modular Control of Discrete-Event Systems <b>2019</b> ,		1
109	On the history of diagnosability and opacity in discrete event systems. <i>Annual Reviews in Control</i> , <b>2018</b> , 45, 257-266	10.3	68
108	Network Partition-Based Zonal Voltage Control for Distribution Networks With Distributed PV Systems. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 4087-4098	10.7	52
107	$\mathbf{N}$ - $(k_{1}, k_{2})$ -detectability of Discrete Event Systems Under Nondeterministic Observations <b>2018</b> ,		4
106	Controllability, Observability, and Integrated State Estimation and Control of Networked Battery Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 1699-1710	4.8	4
105	Detectability of networked discrete event systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>2018</b> , 28, 449-470	1	19
104	Supervisory Control of Networked Timed Discrete Event Systems and Its Applications to Power Distribution Networks. <i>IEEE Transactions on Control of Network Systems</i> , <b>2017</b> , 4, 146-158	4	23
103	Deterministic Networked Control of Discrete Event Systems With Nondeterministic Communication Delays. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 190-205	5.9	30
102	Data-Driven Statistical Analysis and Diagnosis of Networked Battery Systems. <i>IEEE Transactions on Sustainable Energy</i> , <b>2017</b> , 8, 1177-1186	8.2	11
101	State estimation for timed discrete event systems with communication delays <b>2017</b> ,		2
100	Predictive Networked Control of Discrete Event Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 4698-4705	5.9	28

99	Nonblocking networked control of discrete event systems <b>2017</b> ,		3
98	Fuzzy detectabilities for fuzzy discrete event systems <b>2017</b> ,		5
97	Opaque Superlanguages and Sublanguages in Discrete Event Systems. <i>Cybernetics and Systems</i> , <b>2016</b> , 47, 392-426	1.9	5
96	Detectability measure on state estimation of discrete event systems <b>2016</b> ,		1
95	Network robustness depth and topology management of networked dynamic systems. <i>Journal of Systems Science and Complexity</i> , <b>2016</b> , 29, 1-21	1	10
94	Modular supervisory control of networked discrete-event systems <b>2016</b> ,		5
93	Balanced Control Strategies for Interconnected Heterogeneous Battery Systems. <i>IEEE Transactions on Sustainable Energy</i> , <b>2016</b> , 7, 189-199	8.2	27
92	A predictive approach for networked control of discrete event systems <b>2016</b> ,		3
91	Robust Networked Control of Discrete Event Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2016</b> , 13, 1528-1540	4.9	24
90	Supervisor Synthesis for Networked Discrete Event Systems With Communication Delays. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 2183-2188	5.9	39
89	Maximum Information Release While Ensuring Opacity in Discrete Event Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2015</b> , 12, 1067-1079	4.9	31
88	On network observability of discrete event systems <b>2015</b> ,		6
87	Control of Networked Discrete Event Systems: Dealing with Communication Delays and Losses. <i>SIAM Journal on Control and Optimization</i> , <b>2014</b> , 52, 1276-1298	1.9	79
86	A Review of Active Management for Distribution Networks: Current Status and Future Development Trends. <i>Electric Power Components and Systems</i> , <b>2014</b> , 42, 280-293	1	52
85	Decentralized control of networked discrete event systems with communication delays. <i>Automatica</i> , <b>2014</b> , 50, 2108-2112	5.7	49
84	Fault-Tolerant Control for Safety of Discrete-Event Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2014</b> , 11, 78-89	4.9	23
83	Reliability-Based Incremental PMU Placement. <i>IEEE Transactions on Power Systems</i> , <b>2014</b> , 29, 2744-2752	7	30
82	Incorporating Generator Equivalent Model Into Voltage Stability Analysis. <i>IEEE Transactions on Power Systems</i> , <b>2013</b> , 28, 4857-4866	7	47

81	. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2013</b> , 10, 187-196	4.9	24
80	Enforcing Detectability in Controlled Discrete Event Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 2125-2130	5.9	21
79	Online Sensor Activation for Detectability of Discrete Event Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2013</b> , 10, 457-461	4.9	34
78	Robust supervisory control of networked discrete event systems <b>2013</b> ,		3
77	Integrated System Identification and State-of-Charge Estimation of Battery Systems. <i>IEEE Transactions on Energy Conversion</i> , <b>2013</b> , 28, 12-23	5.4	84
76	Delayed Detectability of Discrete Event Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 862-875		38
75	Voltage robust stability in microgrid power management <b>2013</b> ,		2
74	Accurate Probabilistic Characterization of Battery Estimates by Using Large Deviation Principles for Real-Time Battery Diagnosis. <i>IEEE Transactions on Energy Conversion</i> , <b>2013</b> , 28, 860-870	5.4	7
73	Online parameter estimation of PMDC motors using quantized output observations <b>2012</b> ,		1
72	Hierarchical control and management of virtual microgrids for vehicle electrification <b>2012</b> ,		3
71	On modeling of fuzzy hybrid systems. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2012</b> , 23, 129-141	1.6	4
70	On-line parameter estimation of PMDC motors using binary-valued speed measurements <b>2012</b> ,		2
69	Decentralized opacity of discrete event systems <b>2012</b> ,		15
68	Polynomial algorithms to check opacity in discrete event systems <b>2012</b> ,		8
67	Estimating Transitional Probabilities with Cross-Sectional Data to Assess Smoking Behavior Progression: A Validation Analysis. <i>Journal of Biometrics &amp; Biostatistics</i> , <b>2012</b> , Suppl 1,	4	6
66	Safety control of PHEVs in distribution networks using finite state machines with variables <b>2011</b> ,		3
65	Opacity of discrete event systems and its applications. <i>Automatica</i> , <b>2011</b> , 47, 496-503	5.7	141
64	Generalized Detectability for Discrete Event Systems. <i>Systems and Control Letters</i> , <b>2011</b> , 60, 310-317	2.4	57

63	From hybrid energy systems to microgrids: Hybridization techniques, configuration, and control <b>2010</b> ,		3
62	State-feedback control of fuzzy discrete-event systems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2010</b> , 40, 951-6		17
61	Fuzzy hybrid systems modeling <b>2010</b> ,		2
60	. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 2447-2461	5.9	30
59	Detectability of Discrete Event Systems with Dynamic Event Observation. <i>Systems and Control Letters</i> , <b>2010</b> , 59, 9-17	2.4	32
58	Estimation of Transitional Probabilities of Discrete Event Systems from Cross-Sectional Survey and its Application in Tobacco Control. <i>Information Sciences</i> , <b>2010</b> , 180, 432-440	7.7	11
57	Application of the extended fuzzy discrete event systems theory to HIV/AIDS treatment regimen selection <b>2009</b> ,		1
56	An optimal control approach to robust tracking of linear systems. <i>International Journal of Control</i> , <b>2009</b> , 82, 525-540	1.5	26
55	Opaque superlanguages and sublanguagues in discrete event systems <b>2009</b> ,		6
54	Detectability of discrete event systems with dynamic event observation <b>2009</b> ,		1
53	Modifying Security Policies for the Satisfaction of Intransitive Non-Interference. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 1961-1966	5.9	2
52	Theory of Extended Fuzzy Discrete-Event Systems for Handling Ranges of Knowledge Uncertainties and Subjectivity. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2009</b> , 17, 316-328	8.3	34
51	Decentralized Control of Discrete-Event Systems When Supervisors Observe Particular Event Occurrences. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 384-388	5.9	13
50	Minimization of Communication of Event Occurrences in Acyclic Discrete Event Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 2197-2202	5.9	23
49	On the Minimization of Communication in Networked Systems with a Central Station. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>2008</b> , 18, 415-443	1	21
48	State Estimation and Detectability of Probabilistic Discrete Event Systems. <i>Automatica</i> , <b>2008</b> , 44, 3054-3060	5.6	48
47	An optimal effective controller for discrete event systems. <i>Asian Journal of Control</i> , <b>2008</b> , 10, 393-404	1.7	6
46	An Extension to the Theory of Fuzzy Discrete Event Systems <b>2007</b> ,		4

45	An algorithm for calculating indistinguishable states and clusters in finite-state automata with partially observable transitions. <i>Systems and Control Letters</i> , <b>2007</b> , 56, 656-661	2.4	44
44	Special Issue on WODES06. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>2007</b> , 17, 423-424	1	
43	DESIGN OF DECISION TREE VIA KERNELIZED HIERARCHICAL CLUSTERING FOR MULTICLASS SUPPORT VECTOR MACHINES. <i>Cybernetics and Systems</i> , <b>2007</b> , 38, 187-202	1.9	7
42	Minimal Communication for Essential Transitions in a Distributed Discrete-Event System. <i>IEEE Transactions on Automatic Control</i> , <b>2007</b> , 52, 1495-1502	5.9	18
41	A self-learning fuzzy discrete event system for HIV/AIDS treatment regimen selection. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2007</b> , 37, 966-79		39
40	Detectability of Discrete Event Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2007</b> , 52, 2356-2359	5.9	102
39	A fuzzy discrete event system approach to determining optimal HIV/AIDS treatment regimens. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2006</b> , 10, 663-76		44
38	A MIXED INTEGER DYNAMIC PROGRAMMING APPROACH TO A CLASS OF OPTIMAL CONTROL PROBLEMS IN HYBRID SYSTEMS. <i>Cybernetics and Systems</i> , <b>2006</b> , 37, 481-504	1.9	2
37	Characterizing intransitive noninterference for 3-domain security policies with observability. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 920-925	5.9	12
36	Analysis of Zeno behaviors in a class of hybrid systems. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 376-383	5.9	68
35	MULTIPLE SLIDING SURFACE CONTROL FOR SYSTEMS IN NONLINEAR BLOCK CONTROLLABLE FORM. <i>Cybernetics and Systems</i> , <b>2005</b> , 36, 513-526	1.9	3
34	Minimal communication in a distributed discrete-event system. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 957-975	5.9	74
33	An upper bound for carriers in a three-workstation closed serial production system operating under production blocking. <i>IEEE Transactions on Automatic Control</i> , <b>2002</b> , 47, 1134-1138	5.9	11
32	Modeling and control of fuzzy discrete event systems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2002</b> , 32, 408-15		133
31	Design of nonblocking modular supervisors using event priority functions. <i>IEEE Transactions on Automatic Control</i> , <b>2000</b> , 45, 432-452	5.9	12
30	Self-tuning of PID controllers by adaptive interaction <b>2000</b> ,		4
29	Minimal communication in a distributed discrete-event control system <b>1999</b> ,		14
28	Adaptive interaction and its application to neural networks. <i>Information Sciences</i> , <b>1999</b> , 121, 201-215	7.7	35

27	Supervisory control of probabilistic discrete-event systems with recovery. <i>IEEE Transactions on Automatic Control</i> , <b>1999</b> , 44, 1971-1975	5.9	20
26	Robust hovering control of a PVTOL aircraft. <i>IEEE Transactions on Control Systems Technology</i> , <b>1999</b> , 7, 343-351	4.8	108
25	Synthesis and Viability of Minimally Interventive Legal Controllers for Hybrid Systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>1998</b> , 8, 105-135	1	28
24	An optimal control approach to robust control of robot manipulators. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>1998</b> , 14, 69-77		90
23	Control synthesis for a class of hybrid systems subject to configuration-based safety constraints. <i>Lecture Notes in Computer Science</i> , <b>1997</b> , 376-390	0.9	21
22	Why Event Observation: Observability Revisited. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>1997</b> , 7, 127-149	1	11
21	A uniform approach to mixed-signal circuit test. <i>International Journal of Circuit Theory and Applications</i> , <b>1997</b> , 25, 81-93	2	6
20	Centralized and distributed algorithms for on-line synthesis of maximal control policies under partial observation. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>1996</b> , 6, 379-427	1	61
19	On-line control of partially observed discrete event systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>1994</b> , 4, 221-236	1	65
18	Supervisory control using variable lookahead policies. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>1994</b> , 4, 237-268	1	28
17	Diagnosability of discrete event systems and its applications. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>1994</b> , 4, 197-212	1	209
16	Recursive computation of limited lookahead supervisory controls for discrete event systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>1993</b> , 3, 71-100	1	14
15	Supervisory Control Using Variable Lookahead Policies <b>1993</b> ,		2
14	Robust control of nonlinear systems: compensating for uncertainty. <i>International Journal of Control</i> , <b>1992</b> , 56, 1453-1459	1.5	50
13	On tolerable and desirable behaviors in supervisory control of discrete event systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>1991</b> , 1, 61-92	1	26
12	Robust Control of Nonlinear Systems: Compensating for Uncertainty <b>1990</b> ,		20
11	A Fuzzy Discrete Event System for HIV/AIDS Treatment		5
10	A fuzzy discrete event system for HIV/AIDS treatment planning		9

9	A fuzzy discrete event system with self-learning capability for HIV/AIDS treatment regimen selection	4
8	Multi-class support vector machines for modeling HIV/AIDS treatment adherence using patient data	1
7	Fuzzy discrete event systems and their observability	3
6		5
5	An optimal control approach to robust control of robot manipulators	3
4	An LQR approach to robust control of linear systems with uncertain parameters	4
3	Can supervised learning be achieved without explicit error back-propagation?	5
2	Discrete event control of nondeterministic systems	1
1	Robust active damping of vibration systems with uncertainties	3