Feng Lin

List of Publications by Year
in descending order

153 papers	4,238 citations	101384 36 h-index	133063 59 g-index
154 all docs	154 docs citations	154 times ranked	1688 citing authors

#	ARTICLE	IF	CITATIONS
1	Diagnosability of discrete event systems and its applications. Discrete Event Dynamic Systems: Theory and Applications, 1994, 4, 197-212.	0.6	283
2	Opacity of discrete event systems and its applications. Automatica, 2011, 47, 496-503.	3.0	201
3	Modeling and control of fuzzy discrete event systems. IEEE Transactions on Systems, Man, and Cybernetics, 2002, 32, 408-415.	5.5	192
4	Detectability of Discrete Event Systems. IEEE Transactions on Automatic Control, 2007, 52, 2356-2359.	3.6	143
5	An optimal control approach to robust control of robot manipulators. IEEE Transactions on Automation Science and Engineering, 1998, 14, 69-77.	2.4	140
6	Robust hovering control of a PVTOL aircraft. IEEE Transactions on Control Systems Technology, 1999, 7, 343-351.	3.2	139
7	On the history of diagnosability and opacity in discrete event systems. Annual Reviews in Control, 2018, 45, 257-266.	4.4	127
8	Network Partition-Based Zonal Voltage Control for Distribution Networks With Distributed PV Systems. IEEE Transactions on Smart Grid, 2018, 9, 4087-4098.	6.2	118
9	Control of Networked Discrete Event Systems: Dealing with Communication Delays and Losses. SIAM Journal on Control and Optimization, 2014, 52, 1276-1298.	1.1	114
10	Integrated System Identification and State-of-Charge Estimation of Battery Systems. IEEE Transactions on Energy Conversion, 2013, 28, 12-23.	3.7	107
11	Minimal communication in a distributed discrete-event system. IEEE Transactions on Automatic Control, 2003, 48, 957-975.	3.6	99
12	On-line control of partially observed discrete event systems. Discrete Event Dynamic Systems: Theory and Applications, 1994, 4, 221-236.	0.6	87
13	Analysis of Zeno behaviors in a class of hybrid systems. IEEE Transactions on Automatic Control, 2005, 50, 376-383.	3.6	86
14	A Review of Active Management for Distribution Networks: Current Status and Future Development Trends. Electric Power Components and Systems, 2014, 42, 280-293.	1.0	78
15	Generalized detectability for discrete event systems. Systems and Control Letters, 2011, 60, 310-317.	1.3	75
16	Centralized and distributed algorithms for on-line synthesis of maximal control policies under partial observation. Discrete Event Dynamic Systems: Theory and Applications, 1996, 6, 379-427.	0.6	74
17	Robust control of nonlinear systems: compensating for uncertainty. International Journal of Control, 1992, 56, 1453-1459.	1.2	73
18	State estimation and detectability of probabilistic discrete event systems. Automatica, 2008, 44, 3054-3060.	3.0	66

#	ARTICLE	IF	CITATIONS
19	Decentralized control of networked discrete event systems with communication delays. Automatica, 2014, 50, 2108-2112.	3.0	66
20	A Fuzzy Discrete Event System Approach to Determining Optimal HIV/AIDS Treatment Regimens. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 663-676.	3.6	60
21	Adaptive interaction and its application to neural networks. Information Sciences, 1999, 121, 201-215.	4.0	56
22	Incorporating Generator Equivalent Model Into Voltage Stability Analysis. IEEE Transactions on Power Systems, 2013, 28, 4857-4866.	4.6	55
23	Supervisor Synthesis for Networked Discrete Event Systems With Communication Delays. IEEE Transactions on Automatic Control, 2015, 60, 2183-2188.	3.6	55
24	An algorithm for calculating indistinguishable states and clusters in finite-state automata with partially observable transitions. Systems and Control Letters, 2007, 56, 656-661.	1.3	54
25	Delayed Detectability of Discrete Event Systems. IEEE Transactions on Automatic Control, 2013, 58, 862-875.	3.6	51
26	Reliability-Based Incremental PMU Placement. IEEE Transactions on Power Systems, 2014, 29, 2744-2752.	4.6	48
27	Deterministic Networked Control of Discrete Event Systems With Nondeterministic Communication Delays. IEEE Transactions on Automatic Control, 2017, 62, 190-205.	3.6	48
28	A Self-Learning Fuzzy Discrete Event System for HIV/AIDS Treatment Regimen Selection. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 966-979.	5.5	47
29	An optimal control approach to robust tracking of linear systems. International Journal of Control, 2009, 82, 525-540.	1.2	45
30	Maximum Information Release While Ensuring Opacity in Discrete Event Systems. IEEE Transactions on Automation Science and Engineering, 2015, 12, 1067-1079.	3.4	44
31	Balanced Control Strategies for Interconnected Heterogeneous Battery Systems. IEEE Transactions on Sustainable Energy, 2016, 7, 189-199.	5.9	43
32	Predictive Networked Control of Discrete Event Systems. IEEE Transactions on Automatic Control, 2017, 62, 4698-4705.	3.6	43
33	Online Sensor Activation for Detectability of Discrete Event Systems. IEEE Transactions on Automation Science and Engineering, 2013, 10, 457-461.	3.4	42
34	Minimization of Dynamic Sensor Activation in Discrete Event Systems for the Purpose of Control. IEEE Transactions on Automatic Control, 2010, 55, 2447-2461.	3.6	40
35	Supervisory Control of Networked Timed Discrete Event Systems and Its Applications to Power Distribution Networks. IEEE Transactions on Control of Network Systems, 2017, 4, 146-158.	2.4	40
36	Detectability of discrete event systems with dynamic event observation. Systems and Control Letters, 2010, 59, 9-17.	1.3	39

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37	Theory of Extended Fuzzy Discrete-Event Systems for Handling Ranges of Knowledge Uncertainties and Subjectivity. IEEE Transactions on Fuzzy Systems, 2009, 17, 316-328.	6.5	37
38	I-Detectability of Discrete-Event Systems. IEEE Transactions on Automation Science and Engineering, 2013, 10, 187-196.	3.4	36
39	Robust Control of Nonlinear Systems: Compensating for Uncertainty. , 1990, , .		35
40	On tolerable and desirable behaviors in supervisory control of discrete event systems. Discrete Event Dynamic Systems: Theory and Applications, 1991, 1, 61-92.	0.6	35
41	Self-tuning of PID controllers by adaptive interaction. , 2000, , .		35
42	Robust Networked Control of Discrete Event Systems. IEEE Transactions on Automation Science and Engineering, 2016, 13, 1528-1540.	3.4	35
43	Synthesis and Viability of Minimally Interventive Legal Controllers for Hybrid Systems. Discrete Event Dynamic Systems: Theory and Applications, 1998, 8, 105-135.	0.6	34
44	Minimization of Communication of Event Occurrences in Acyclic Discrete Event Systems. IEEE Transactions on Automatic Control, 2008, 53, 2197-2202.	3.6	33
45	Supervisory control using variable lookahead policies. Discrete Event Dynamic Systems: Theory and Applications, 1994, 4, 237-268.	0.6	32
46	Control synthesis for a class of hybrid systems subject to configuration-based safety constraints. Lecture Notes in Computer Science, 1997, , 376-390.	1.0	28
47	Fault-Tolerant Control for Safety of Discrete-Event Systems. IEEE Transactions on Automation Science and Engineering, 2014, 11, 78-89.	3.4	28
48	On the Minimization of Communication in Networked Systems with a Central Station. Discrete Event Dynamic Systems: Theory and Applications, 2008, 18, 415-443.	0.6	27
49	Detectability of networked discrete event systems. Discrete Event Dynamic Systems: Theory and Applications, 2018, 28, 449-470.	0.6	27
50	Minimal Communication for Essential Transitions in a Distributed Discrete-Event System. IEEE Transactions on Automatic Control, 2007, 52, 1495-1502.	3.6	26
51	Supervisory control of probabilistic discrete-event systems with recovery. IEEE Transactions on Automatic Control, 1999, 44, 1971-1975.	3.6	25
52	State-Feedback Control of Fuzzy Discrete-Event Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 951-956.	5.5	24
53	Fuzzy discrete event systems and their observability. , 0, , .		22
54	Enforcing Detectability in Controlled Discrete Event Systems. IEEE Transactions on Automatic Control, 2013, 58, 2125-2130.	3.6	22

#	ARTICLE	IF	CITATIONS
55	State Estimation of Multichannel Networked Discrete Event Systems. IEEE Transactions on Control of Network Systems, 2020, 7, 53-63.	2.4	21
56	Recursive computation of limited lookahead supervisory controls for discrete event systems. Discrete Event Dynamic Systems: Theory and Applications, 1993, 3, 71-100.	0.6	20
57	Minimal communication in a distributed discrete-event control system. , 1999, , .		19
58	Online Self-Learning Fuzzy Discrete Event Systems. IEEE Transactions on Fuzzy Systems, 2020, 28, 2185-2194.	6.5	19
59	Why Event Observation: Observability Revisited. Discrete Event Dynamic Systems: Theory and Applications, 1997, 7, 127-149.	0.6	18
60	Decentralized opacity of discrete event systems. , 2012, , .		18
61	Design of nonblocking modular supervisors using event priority functions. IEEE Transactions on Automatic Control, 2000, 45, 432-452.	3.6	17
62	Characterizing intransitive noninterference for 3-domain security policies with observability. IEEE Transactions on Automatic Control, 2005, 50, 920-925.	3.6	17
63	Decentralized Control of Discrete-Event Systems When Supervisors Observe Particular Event Occurrences. IEEE Transactions on Automatic Control, 2008, 53, 384-388.	3.6	17
64	Optimal Information Release for Mixed Opacity in Discrete-Event Systems. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1960-1970.	3.4	17
65	Estimation of transitional probabilities of discrete event systems from cross-sectional survey and its application in tobacco control. Information Sciences, 2010, 180, 432-440.	4.0	15
66	Network robustness depth and topology management of networked dynamic systems. Journal of Systems Science and Complexity, 2016, 29, 1-21.	1.6	15
67	Detectability Measure for State Estimation of Discrete Event Systems. IEEE Transactions on Automatic Control, 2019, 64, 433-439.	3.6	15
68	A fuzzy discrete event system for HIV/AIDS treatment planning. , 0, , .		14
69	An upper bound for carriers in a three-workstation closed serial production system operating under production blocking. IEEE Transactions on Automatic Control, 2002, 47, 1134-1138.	3.6	13
70	Data-Driven Statistical Analysis and Diagnosis of Networked Battery Systems. IEEE Transactions on Sustainable Energy, 2017, 8, 1177-1186.	5.9	12
71	Hybrid Control of Networked Battery Systems. IEEE Transactions on Sustainable Energy, 2019, 10, 1109-1119.	5.9	12
72	Online Supervisory Control of Networked Discrete Event Systems With Control Delays. IEEE Transactions on Automatic Control, 2022, 67, 2314-2329.	3.6	12

#	ARTICLE	IF	CITATIONS
73	Supervised learning in neural networks without feedback network. , 0, , .		11
74	Modular supervisory control of networked discrete-event systems. , 2016, , .		11
75	Fuzzy Discrete Event Systems with Gradient-Based Online Learning. , 2019, , .		11
76	Relative Network Observability and Its Relation With Network Observability. IEEE Transactions on Automatic Control, 2020, 65, 3584-3591.	3.6	11
77	Information control in networked discrete event systems and its application to battery management systems. Discrete Event Dynamic Systems: Theory and Applications, 2020, 30, 243-268.	0.6	11
78	From hybrid energy systems to microgrids: Hybridization techniques, configuration, and control. , 2010, , .		10
79	Polynomial algorithms to check opacity in discrete event systems. , 2012, , .		10
80	A uniform approach to mixed-signal circuit test. International Journal of Circuit Theory and Applications, 1997, 25, 81-93.	1.3	9
81	Accurate Probabilistic Characterization of Battery Estimates by Using Large Deviation Principles for Real-Time Battery Diagnosis. IEEE Transactions on Energy Conversion, 2013, 28, 860-870.	3.7	9
82	On network observability of discrete event systems. , 2015, , .		9
83	An LQR approach to robust control of linear systems with uncertain parameters. , 0, , .		8
84	A Fuzzy Discrete Event System for HIV/AIDS Treatment. , 0, , .		8
85	Opaque Superlanguages and Sublanguages in Discrete Event Systems. Cybernetics and Systems, 2016, 47, 392-426.	1.6	8
86	Detectability of Discrete-Event Systems Under Nondeterministic Observations. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1315-1327.	3.4	8
87	Estimating Transitional Probabilities with Cross-Sectional Data to Assess Smoking Behavior Progression: A Validation Analysis. Journal of Biometrics & Biostatistics, 2012, Suppl 1, .	4.0	8
88	Can supervised learning be achieved without explicit error back-propagation?. , 0, , .		7
89	Discrete event control of nondeterministic systems. , 0, , .		7
90	DESIGN OF DECISION TREE VIA KERNELIZED HIERARCHICAL CLUSTERING FOR MULTICLASS SUPPORT VECTOR MACHINES. Cybernetics and Systems, 2007, 38, 187-202.	1.6	7

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91	An optimal effective controller for discrete event systems. Asian Journal of Control, 2008, 10, 393-404.	1.9	7
92	Opaque superlanguages and sublanguages in discrete event systems. , 2009, , .		7
93	Modifying Security Policies for the Satisfaction of Intransitive Non-Interference. IEEE Transactions on Automatic Control, 2009, 54, 1961-1966.	3.6	6
94	Fuzzy detectabilities for fuzzy discrete event systems. , 2017, , .		6
95	Controllability, Observability, and Integrated State Estimation and Control of Networked Battery Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 1699-1710.	3.2	6
96	Verification of Delay Co-Observability for Discrete Event Systems. IEEE Transactions on Control of Network Systems, 2020, 7, 176-186.	2.4	6
97	Learning Fuzzy Automatonâ€™s Event Transition Matrix When Post-Event State Is Unknown. IEEE Transactions on Cybernetics, 2022, 52, 4993-5000.	6.2	6
98	A Fuzzy Discrete Event System with Self-Learning Capability for HIV/AIDS Treatment Regimen Selection. , 0, , .		5
99	On modeling of fuzzy hybrid systems. Journal of Intelligent and Fuzzy Systems, 2012, 23, 129-141.	0.8	5
100	An optimal control approach to robust control of robot manipulators. , 0, , .		4
101	An Extension to the Theory of Fuzzy Discrete Event Systems. , 2007, , .		4
102	Fuzzy hybrid systems modeling. , 2010, , .		4
103	Safety control of PHEVs in distribution networks using finite state machines with variables. , 2011, , .		4
104	On-line parameter estimation of PMDC motors using binary-valued speed measurements. , 2012, , .		4
105	Online parameter estimation of PMDC motors using quantized output observations. , 2012, , .		4
106	A predictive approach for networked control of discrete event systems. , 2016, , .		4
107	Nonblocking networked control of discrete event systems. , 2017, , .		4
108	$\mathbf{N}$-(k_{1}, k_{2})-detectability of Discrete Event Systems Under Nondeterministic Observations. , 2018, , .		4

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109	Modeling and Control of Probabilistic Fuzzy Discrete Event Systems. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 399-408.	3.4	4
110	Supervised Learning in Neural Networks: Feedback-Network-Free Implementation and Biological Plausibility. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7888-7898.	7.2	4
111	Stochastic Observability and Convergent Analog State Estimation of Randomly Switched Linear Systems With Unobservable Subsystems. IEEE Transactions on Automatic Control, 2023, 68, 898-911.	3.6	4
112	Robust active damping of vibration systems with uncertainties. , 0, , .		3
113	MULTIPLE SLIDING SURFACE CONTROL FOR SYSTEMS IN NONLINEAR BLOCK CONTROLLABLE FORM. Cybernetics and Systems, 2005, 36, 513-526.	1.6	3
114	Hierarchical control and management of virtual microgrids for vehicle electrification. , 2012, , .		3
115	Robust supervisory control of networked discrete event systems. , 2013, , .		3
116	On Controllability of Hybrid Systems. IEEE Transactions on Automatic Control, 2021, 66, 3243-3250.	3.6	3
117	Supervisory Control Using Variable Lookahead Policies. , 1993, , .		3
118	Weak Diagnosability of Discrete Event Systems. IFAC-PapersOnLine, 2020, 53, 338-343.	0.5	3
119	On Detectabilities of Fuzzy Discrete Event Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 426-436.	6.5	3
120	Controllability of a Class of Hybrid Systems. , 2020, , .		3
121	A Discrete-Event System Approach for Modeling and Mitigating Power System Cascading Failures. IEEE Transactions on Control Systems Technology, 2022, 30, 2547-2560.	3.2	3
122	An optimal deadlock avoidance policy for manufacturing systems with flexible operation sequence and flexible routing. , 0, , .		2
123	Multi-class support vector machines for modeling HIV/AIDS treatment adherence using patient data. , 0, , .		2
124	A MIXED INTEGER DYNAMIC PROGRAMMING APPROACH TO A CLASS OF OPTIMAL CONTROL PROBLEMS IN HYBRID SYSTEMS. Cybernetics and Systems, 2006, 37, 481-504.	1.6	2
125	Detectability of discrete event systems with dynamic event observation. , 2009, , .		2
126	Voltage robust stability in microgrid power management. , 2013, , .		2

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127	State estimation for timed discrete event systems with communication delays. , 2017, , .		2
128	Supervisory Control Of Discrete Event Systems Under Nondeterministic Observations. , 2019, , .		2
129	Predictive Supervisory Control for Timed Discrete Event Systems under Communication Delays. , 2019, , .		2
130	Weak Diagnosability of Discrete-Event Systems. IEEE Transactions on Control of Network Systems, 2022, 9, 184-196.	2.4	2
131	On Observability of Hybrid Systems. IEEE Transactions on Automatic Control, 2022, 67, 6074-6081.	3.6	2
132	Supervised Learning of Multievent Transition Matrices in Fuzzy Discrete-Event Systems. IEEE Transactions on Cybernetics, 2023, 53, 5596-5604.	6.2	2
133	An algorithmic approach to verification of intransitive non-interference in security policies. , 2004, , .		1
134	Application of the extended fuzzy discrete event systems theory to HIV/AIDS treatment regimen selection. , 2009, , .		1
135	Novel integration sliding mode speed controller for vector controlled induction machines. , 2011, , .		1
136	Computing the infimal superlanguage for generalized observability. , 2011, , .		1
137	Dynamic identification for personalized product recommendations based on fuzzy discrete event systems. , 2012, , .		1
138	Maximum information release while ensuring opacity in discrete event systems. , 2014, , .		1
139	Detectability measure on state estimation of discrete event systems. , 2016, , .		1
140	A Unifying Approach to Maximal Permissiveness in Modular Control of Discrete-Event Systems. , 2019, , .		1
141	Nonblocking and deterministic decentralized control for networked discrete event systems under communication delays. Discrete Event Dynamic Systems: Theory and Applications, 2021, 31, 295-315.	0.6	1
142	Lossless Event Compression of Discrete Event Systems. IEEE Transactions on Automatic Control, 2021, 66, 2312-2318.	3.6	1
143	Discrete event control with active events. , 0, , .		0
144	A Fuzzy Discrete Event Systems Approach to Selecting Second-Round Combination Antiretroviral Therapy for HIV/AIDS Patients. , 2006, , .		0

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145	Decentralized control of discrete-event systems when supervisors observe particular event occurrences. , 2006, , .		0
146	Estimation of transitional probabilities of discrete event systems from cross-sectional survey and its application in tobacco control. , 2007, , .		0
147	Special Issue on WODESâ€™06. Discrete Event Dynamic Systems: Theory and Applications, 2007, 17, 423-424.	0.6	0
148	Fault-tolerant control for safety of discrete event systems. , 2012, , .		0
149	Power distribution network management using networked control of timed discrete event systems. , 2014, , .		0
150	Checking Delay Co-Observability of Discrete Event Systems with Two Local Supervisors. , 2018, , .		0
151	Personalized Control of Indoor Air Temperature Based on Deep Learning. , 2019, , .		0
152	Robust Control of Networked Discrete-Event Systems Using Predictive Supervisors. , 2020, , .		0
153	A Mathematical Model Relating Chromosome Aberrations to Cancer Progression. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0