Feng Lin

List of Publications by Citations

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	Diagnosability of discrete event systems and its applications. *Discrete Event Dynamic Systems: Theory and Applications*, **1994**, 4, 197-212	1	209
133	Opacity of discrete event systems and its applications. *Automatica*, **2011**, 47, 496-503	5.7	141
132	Modeling and control of fuzzy discrete event systems. *IEEE Transactions on Systems, Man, and Cybernetics*, **2002**, 32, 408-15		133
131	Robust hovering control of a PVTOL aircraft. *IEEE Transactions on Control Systems Technology*, **1999**, 7, 343-351	4.8	108
130	Detectability of Discrete Event Systems. *IEEE Transactions on Automatic Control*, **2007**, 52, 2356-2359	5.9	102
129	An optimal control approach to robust control of robot manipulators. *IEEE Transactions on Automation Science and Engineering*, **1998**, 14, 69-77		90
128	Integrated System Identification and State-of-Charge Estimation of Battery Systems. *IEEE Transactions on Energy Conversion*, **2013**, 28, 12-23	5.4	84
127	Control of Networked Discrete Event Systems: Dealing with Communication Delays and Losses. *SIAM Journal on Control and Optimization*, **2014**, 52, 1276-1298	1.9	79
126	Minimal communication in a distributed discrete-event system. *IEEE Transactions on Automatic Control*, **2003**, 48, 957-975	5.9	74
125	On the history of diagnosability and opacity in discrete event systems. *Annual Reviews in Control*, **2018**, 45, 257-266	10.3	68
124	Analysis of Zeno behaviors in a class of hybrid systems. *IEEE Transactions on Automatic Control*, **2005**, 50, 376-383	5.9	68
123	On-line control of partially observed discrete event systems. *Discrete Event Dynamic Systems: Theory and Applications*, **1994**, 4, 221-236	1	65
122	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	1	61
121	Generalized Detectability for Discrete Event Systems. *Systems and Control Letters*, **2011**, 60, 310-317	2.4	57
120	Network Partition-Based Zonal Voltage Control for Distribution Networks With Distributed PV Systems. *IEEE Transactions on Smart Grid*, **2018**, 9, 4087-4098	10.7	52
119	A Review of Active Management for Distribution Networks: Current Status and Future Development Trends. *Electric Power Components and Systems*, **2014**, 42, 280-293	1	52
118	Robust control of nonlinear systems: compensating for uncertainty. *International Journal of Control* , **1992**, 56, 1453-1459	1.5	50

117	Decentralized control of networked discrete event systems with communication delays. *Automatica*, **2014**, 50, 2108-2112	5.7	49
116	State Estimation and Detectability of Probabilistic Discrete Event Systems. *Automatica*, **2008**, 44, 3054-3060	5.7	48
115	Incorporating Generator Equivalent Model Into Voltage Stability Analysis. *IEEE Transactions on Power Systems*, **2013**, 28, 4857-4866	7	47
114	An algorithm for calculating indistinguishable states and clusters in finite-state automata with partially observable transitions. *Systems and Control Letters*, **2007**, 56, 656-661	2.4	44
113	A fuzzy discrete event system approach to determining optimal HIV/AIDS treatment regimens. *IEEE Transactions on Information Technology in Biomedicine*, **2006**, 10, 663-76		44
112	Supervisor Synthesis for Networked Discrete Event Systems With Communication Delays. *IEEE Transactions on Automatic Control*, **2015**, 60, 2183-2188	5.9	39
111	A self-learning fuzzy discrete event system for HIV/AIDS treatment regimen selection. *IEEE Transactions on Systems, Man, and Cybernetics*, **2007**, 37, 966-79		39
110	Delayed Detectability of Discrete Event Systems. *IEEE Transactions on Automatic Control*, **2013**, 58, 862-875	5.9	38
109	Adaptive interaction and its application to neural networks. *Information Sciences*, **1999**, 121, 201-215	7.7	35
108	Online Sensor Activation for Detectability of Discrete Event Systems. *IEEE Transactions on Automation Science and Engineering*, **2013**, 10, 457-461	4.9	34
107	Theory of Extended Fuzzy Discrete-Event Systems for Handling Ranges of Knowledge Uncertainties and Subjectivity. *IEEE Transactions on Fuzzy Systems*, **2009**, 17, 316-328	8.3	34
106	Detectability of Discrete Event Systems with Dynamic Event Observation. *Systems and Control Letters*, **2010**, 59, 9-17	2.4	32
105	Maximum Information Release While Ensuring Opacity in Discrete Event Systems. *IEEE Transactions on Automation Science and Engineering*, **2015**, 12, 1067-1079	4.9	31
104	Deterministic Networked Control of Discrete Event Systems With Nondeterministic Communication Delays. *IEEE Transactions on Automatic Control*, **2017**, 62, 190-205	5.9	30
103	Reliability-Based Incremental PMU Placement. *IEEE Transactions on Power Systems*, **2014**, 29, 2744-2752	7	30
102	. *IEEE Transactions on Automatic Control*, **2010**, 55, 2447-2461	5.9	30
101	Predictive Networked Control of Discrete Event Systems. *IEEE Transactions on Automatic Control*, **2017**, 62, 4698-4705	5.9	28
100	Synthesis and Viability of Minimally Interventive Legal Controllers for Hybrid Systems. *Discrete Event Dynamic Systems: Theory and Applications*, **1998**, 8, 105-135	1	28

99	Supervisory control using variable lookahead policies. *Discrete Event Dynamic Systems: Theory and Applications*, **1994**, 4, 237-268	1	28
98	Balanced Control Strategies for Interconnected Heterogeneous Battery Systems. *IEEE Transactions on Sustainable Energy*, **2016**, 7, 189-199	8.2	27
97	An optimal control approach to robust tracking of linear systems. *International Journal of Control*, **2009**, 82, 525-540	1.5	26
96	On tolerable and desirable behaviors in supervisory control of discrete event systems. *Discrete Event Dynamic Systems: Theory and Applications*, **1991**, 1, 61-92	1	26
95	. *IEEE Transactions on Automation Science and Engineering*, **2013**, 10, 187-196	4.9	24
94	Robust Networked Control of Discrete Event Systems. *IEEE Transactions on Automation Science and Engineering*, **2016**, 13, 1528-1540	4.9	24
93	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	4	23
92	Fault-Tolerant Control for Safety of Discrete-Event Systems. *IEEE Transactions on Automation Science and Engineering*, **2014**, 11, 78-89	4.9	23
91	Minimization of Communication of Event Occurrences in Acyclic Discrete Event Systems. *IEEE Transactions on Automatic Control*, **2008**, 53, 2197-2202	5.9	23
90	Enforcing Detectability in Controlled Discrete Event Systems. *IEEE Transactions on Automatic Control*, **2013**, 58, 2125-2130	5.9	21
89	Control synthesis for a class of hybrid systems subject to configuration-based safety constraints. *Lecture Notes in Computer Science*, **1997**, 376-390	0.9	21
88	On the Minimization of Communication in Networked Systems with a Central Station. *Discrete Event Dynamic Systems: Theory and Applications*, **2008**, 18, 415-443	1	21
87	Supervisory control of probabilistic discrete-event systems with recovery. *IEEE Transactions on Automatic Control*, **1999**, 44, 1971-1975	5.9	20
86	Robust Control of Nonlinear Systems: Compensating for Uncertainty **1990**,		20
85	Detectability of networked discrete event systems. *Discrete Event Dynamic Systems: Theory and Applications*, **2018**, 28, 449-470	1	19
84	Minimal Communication for Essential Transitions in a Distributed Discrete-Event System. *IEEE Transactions on Automatic Control*, **2007**, 52, 1495-1502	5.9	18
83	State-feedback control of fuzzy discrete-event systems. *IEEE Transactions on Systems, Man, and Cybernetics*, **2010**, 40, 951-6		17
82	Decentralized opacity of discrete event systems **2012**,		15

81	Minimal communication in a distributed discrete-event control system **1999**,		14
80	Recursive computation of limited lookahead supervisory controls for discrete event systems. *Discrete Event Dynamic Systems: Theory and Applications*, **1993**, 3, 71-100	1	14
79	Decentralized Control of Discrete-Event Systems When Supervisors Observe Particular Event Occurrences. *IEEE Transactions on Automatic Control*, **2008**, 53, 384-388	5.9	13
78	Characterizing intransitive noninterference for 3-domain security policies with observability. *IEEE Transactions on Automatic Control*, **2005**, 50, 920-925	5.9	12
77	Design of nonblocking modular supervisors using event priority functions. *IEEE Transactions on Automatic Control*, **2000**, 45, 432-452	5.9	12
76	Data-Driven Statistical Analysis and Diagnosis of Networked Battery Systems. *IEEE Transactions on Sustainable Energy*, **2017**, 8, 1177-1186	8.2	11
75	Estimation of Transitional Probabilities of Discrete Event Systems from Cross-Sectional Survey and its Application in Tobacco Control. *Information Sciences*, **2010**, 180, 432-440	7.7	11
74	Why Event Observation: Observability Revisited. *Discrete Event Dynamic Systems: Theory and Applications*, **1997**, 7, 127-149	1	11
73	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	5.9	11
72	Network robustness depth and topology management of networked dynamic systems. *Journal of Systems Science and Complexity*, **2016**, 29, 1-21	1	10
71	Detectability Measure for State Estimation of Discrete Event Systems. *IEEE Transactions on Automatic Control*, **2019**, 64, 433-439	5.9	9
70	A fuzzy discrete event system for HIV/AIDS treatment planning		9
69	State Estimation of Multichannel Networked Discrete Event Systems. *IEEE Transactions on Control of Network Systems*, **2020**, 7, 53-63	4	9
68	Optimal Information Release for Mixed Opacity in Discrete-Event Systems. *IEEE Transactions on Automation Science and Engineering*, **2019**, 16, 1960-1970	4.9	8
67	Hybrid Control of Networked Battery Systems. *IEEE Transactions on Sustainable Energy*, **2019**, 10, 1109-1119	8.2	8
66	Polynomial algorithms to check opacity in discrete event systems **2012**,		8
65	Online Self-Learning Fuzzy Discrete Event Systems. *IEEE Transactions on Fuzzy Systems*, **2020**, 28, 2185-2194	8.5	8
64	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	5.4	7

63	DESIGN OF DECISION TREE VIA KERNELIZED HIERARCHICAL CLUSTERING FOR MULTICLASS SUPPORT VECTOR MACHINES. *Cybernetics and Systems*, **2007**, 38, 187-202	1.9	7
62	On network observability of discrete event systems **2015**,		6
61	Opaque superlanguages and sublanguages in discrete event systems **2009**,		6
60	A uniform approach to mixed-signal circuit test. *International Journal of Circuit Theory and Applications*, **1997**, 25, 81-93	2	6
59	An optimal effective controller for discrete event systems. *Asian Journal of Control*, **2008**, 10, 393-404	1.7	6
58	Estimating Transitional Probabilities with Cross-Sectional Data to Assess Smoking Behavior Progression: A Validation Analysis. *Journal of Biometrics & Biostatistics*, **2012**, Suppl 1,	4	6
57	Opaque Superlanguages and Sublanguages in Discrete Event Systems. *Cybernetics and Systems*, **2016**, 47, 392-426	1.9	5
56	Modular supervisory control of networked discrete-event systems **2016**,		5
55	Fuzzy Discrete Event Systems with Gradient-Based Online Learning **2019**,		5
54	Fuzzy detectabilities for fuzzy discrete event systems **2017**,		5
53	A Fuzzy Discrete Event System for HIV/AIDS Treatment		5
52			5
51	Can supervised learning be achieved without explicit error back-propagation?		5
50	$mathbf{N}-(k_{1}, k_{2})$-detectability of Discrete Event Systems Under Nondeterministic Observations **2018**,		4
49	On modeling of fuzzy hybrid systems. *Journal of Intelligent and Fuzzy Systems*, **2012**, 23, 129-141	1.6	4
48	An Extension to the Theory of Fuzzy Discrete Event Systems **2007**,		4
47	A fuzzy discrete event system with self-learning capability for HIV/AIDS treatment regimen selection		4
46	Self-tuning of PID controllers by adaptive interaction **2000**,		4

45	An LQR approach to robust control of linear systems with uncertain parameters		4
44	Relative Network Observability and Its Relation With Network Observability. *IEEE Transactions on Automatic Control*, **2020**, 65, 3584-3591	5.9	4
43	Controllability, Observability, and Integrated State Estimation and Control of Networked Battery Systems. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 1699-1710	4.8	4
42	Robust supervisory control of networked discrete event systems **2013**,		3
41	Nonblocking networked control of discrete event systems **2017**,		3
40	Hierarchical control and management of virtual microgrids for vehicle electrification **2012**,		3
39	From hybrid energy systems to microgrids: Hybridization techniques, configuration, and control **2010**,		3
38	Safety control of PHEVs in distribution networks using finite state machines with variables **2011**,		3
37	MULTIPLE SLIDING SURFACE CONTROL FOR SYSTEMS IN NONLINEAR BLOCK CONTROLLABLE FORM. *Cybernetics and Systems*, **2005**, 36, 513-526	1.9	3
36	Fuzzy discrete event systems and their observability		3
35	An optimal control approach to robust control of robot manipulators		3
34	Robust active damping of vibration systems with uncertainties		3
33	A predictive approach for networked control of discrete event systems **2016**,		3
32	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	1	2
31	State estimation for timed discrete event systems with communication delays **2017**,		2
30	Voltage robust stability in microgrid power management **2013**,		2
29	Fuzzy hybrid systems modeling **2010**,		2
28	On-line parameter estimation of PMDC motors using binary-valued speed measurements **2012**,		2

27	Modifying Security Policies for the Satisfaction of Intransitive Non-Interference. *IEEE Transactions on Automatic Control*, **2009**, 54, 1961-1966	5.9	2
26	A MIXED INTEGER DYNAMIC PROGRAMMING APPROACH TO A CLASS OF OPTIMAL CONTROL PROBLEMS IN HYBRID SYSTEMS. *Cybernetics and Systems*, **2006**, 37, 481-504	1.9	2
25	Supervisory Control Using Variable Lookahead Policies **1993**,		2
24	. *IEEE Transactions on Control of Network Systems*, **2020**, 7, 176-186	4	2
23	On Controllability of Hybrid Systems. *IEEE Transactions on Automatic Control*, **2021**, 66, 3243-3250	5.9	2
22	Supervisory Control Of Discrete Event Systems Under Nondeterministic Observations **2019**,		1
21	Detectability measure on state estimation of discrete event systems **2016**,		1
20	Online parameter estimation of PMDC motors using quantized output observations **2012**,		1
19	Application of the extended fuzzy discrete event systems theory to HIV/AIDS treatment regimen selection **2009**,		1
18	Detectability of discrete event systems with dynamic event observation **2009**,		1
17	Multi-class support vector machines for modeling HIV/AIDS treatment adherence using patient data		1
16	Discrete event control of nondeterministic systems		1
15	On Detectabilities of Fuzzy Discrete Event Systems. *IEEE Transactions on Fuzzy Systems*, **2020**, 1-1	8.3	1
14	Weak Diagnosability of Discrete Event Systems. *IFAC-PapersOnLine*, **2020**, 53, 338-343	0.7	1
13	Predictive Supervisory Control for Timed Discrete Event Systems under Communication Delays **2019**,		1
12	A Unifying Approach to Maximal Permissiveness in Modular Control of Discrete-Event Systems **2019**,		1
11	Detectability of Discrete-Event Systems Under Nondeterministic Observations. *IEEE Transactions on Automation Science and Engineering*, **2021**, 18, 1315-1327	4.9	1
10	Modeling and Control of Probabilistic Fuzzy Discrete Event Systems. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2021**, 1-10	4.1	1

9	Online Supervisory Control of Networked Discrete-Event Systems with Control Delays. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	1
8	Stochastic Observability and Convergent Analog State Estimation of Randomly Switched Linear Systems with Unobservable Subsystems. *IEEE Transactions on Automatic Control*, **2022**, 1-1	5.9	0
7	On Observability of Hybrid Systems. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	0
6	Modeling and Control of Networked Discrete-Event Systems **2020**, 1-27		0
5	Lossless Event Compression of Discrete Event Systems. *IEEE Transactions on Automatic Control*, **2021**, 66, 2312-2318	5.9	0
4	A Discrete-Event System Approach for Modeling and Mitigating Power System Cascading Failures. *IEEE Transactions on Control Systems Technology*, **2022**, 1-14	4.8	0
3	Special Issue on WODES06. *Discrete Event Dynamic Systems: Theory and Applications*, **2007**, 17, 423-424	1	
2	Weak Diagnosability of Discrete Event Systems. *IEEE Transactions on Control of Network Systems*, **2021**, 1-1	4	
1	Nonblocking and deterministic decentralized control for networked discrete event systems under communication delays. *Discrete Event Dynamic Systems: Theory and Applications*, **2021**, 31, 295-315	1	