

Stphane Lafortune

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.

198
papers

4,403
citations

30
h-index

60
g-index

207
ext. papers

5,357
ext. citations

3
avg, IF

6.13
L-index

#	Paper	IF	Citations
198	Authors' Reply to Comments on A new approach for the verification of infinite-step and K-step opacity using two-way observers [Automatica, 2017(80)162-171] [Automatica, 2021, 124, 109273	5.7	
197	Optimal supervisory control with mean payoff objectives and under partial observation. <i>Automatica</i> , 2021, 123, 109359	5.7	5
196	. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 4184-4191	5.9	5
195	Synthesis of optimal multi-objective attack strategies for controlled systems modeled by probabilistic automata. <i>IEEE Transactions on Automatic Control</i> , 2021, 1-1	5.9	0
194	A compact and uniform approach for synthesizing state-based property-enforcing supervisors for discrete-event systems. <i>IEEE Transactions on Automatic Control</i> , 2021, 1-1	5.9	
193	Editorial - Thirty years of J-DEDS: moving on with new leadership. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2021, 31, 1-3	1	
192	Divergent stutter bisimulation abstraction for controller synthesis with linear temporal logic specifications. <i>Automatica</i> , 2021, 130, 109723	5.7	1
191	Synthesis of Supervisors Robust Against Sensor Deception Attacks. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 4990-4997	5.9	10
190	Local Mean Payoff Supervisory Control for Discrete Event Systems. <i>IEEE Transactions on Automatic Control</i> , 2021, 1-1	5.9	1
189	Compositional and Abstraction-Based Approach for Synthesis of Edit Functions for Opacity Enforcement. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 3349-3364	5.9	11
188	Spectral Analysis of Fronts in a Marangoni-Driven Thin Liquid Film Flow Down a Slope. <i>SIAM Journal on Applied Mathematics</i> , 2020, 80, 95-118	1.8	
187	Towards probabilistic intrusion detection in supervisory control of discrete event systems. <i>IFAC-PapersOnLine</i> , 2020, 53, 1776-1782	0.7	2
186	Moving Target Defense based on Switched Supervisory Control: A New Technique for Mitigating Sensor Deception Attacks. <i>IFAC-PapersOnLine</i> , 2020, 53, 317-323	0.7	0
185	Efficient Synthesis of Sensor Deception Attacks Using Observation Equivalence-Based Abstraction. <i>IFAC-PapersOnLine</i> , 2020, 53, 28-34	0.7	5
184	Mitigation of Classes of Attacks using a Probabilistic Discrete Event System Framework. <i>IFAC-PapersOnLine</i> , 2020, 53, 35-41	0.7	2
183	Divergence Properties of Labeled Petri Nets and Their Relevance for Diagnosability Analysis. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 3092-3097	5.9	2
182	Flame propagation in a porous medium. <i>Physica D: Nonlinear Phenomena</i> , 2020, 413, 132653	3.3	2

181	Synthesis of sensor deception attacks at the supervisory layer of CyberPhysical Systems. <i>Automatica</i> , 2020 , 121, 109172	5.7	18
180	Supervisory Control of Labeled Transition Systems Subject to Multiple Reachability Requirements via Symbolic Model Checking. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 644-652	4.8	3
179	Transforming Opacity Verification to Nonblocking Verification in Modular Systems. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 1739-1746	5.9	10
178	Incorporating automation logic in online chemical production scheduling. <i>Computers and Chemical Engineering</i> , 2019 , 128, 201-215	4	4
177	A general approach for optimizing dynamic sensor activation for discrete event systems. <i>Automatica</i> , 2019 , 105, 376-383	5.7	14
176	Opacity Enforcement Using Nondeterministic Publicly Known Edit Functions. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 4369-4376	5.9	25
175	. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 1768-1768	5.9	2
174	Enforcing opacity by insertion functions under multiple energy constraints. <i>Automatica</i> , 2019 , 108, 1084-1091	5.7	27
173	Automated Synthesis of Secure Platform Mappings. <i>Lecture Notes in Computer Science</i> , 2019 , 219-237	0.9	1
172	Supervisory Control under Local Mean Payoff Constraints 2019 ,		4
171	Towards resilient supervisors against sensor deception attacks 2019 ,		11
170	Synthesis of Sensor Deception Attacks for Systems Modeled as Probabilistic Automata 2019 ,		13
169	Discrete Event Systems: Modeling, Observation, and Control. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2019 , 2, 141-159	11.8	13
168	Enforcement of opacity by public and private insertion functions. <i>Automatica</i> , 2018 , 93, 369-378	5.7	27
167	On the history of diagnosability and opacity in discrete event systems. <i>Annual Reviews in Control</i> , 2018 , 45, 257-266	10.3	68
166	Minimization of Sensor Activation in Decentralized Discrete-Event Systems. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 3705-3718	5.9	10
165	Synthesis of Maximally Permissive Nonblocking Supervisors for the Lower Bound Containment Problem. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 4435-4441	5.9	7
164	Incorporating Automation Logic in the Online Scheduling of Batch Chemical Plants. <i>Computer Aided Chemical Engineering</i> , 2018 , 2053-2058	0.6	3

163	Fault Diagnosis of Manufacturing Systems Using Finite State Automata 2018 , 601-626		
162	Synthesis of Obfuscation Policies to Ensure Privacy and Utility. <i>Journal of Automated Reasoning</i> , 2018 , 60, 107-131	1	16
161	Thirty Years of the Ramadge-Wonham Theory of Supervisory Control: A Retrospective and Future Perspectives [Conference Reports]. <i>IEEE Control Systems</i> , 2018 , 38, 111-112	2.9	3
160	Mean Payoff Supervisory Control Under Partial Observation 2018 ,		5
159	Efficient Synthesis of Edit Functions for Opacity Enforcement Using Bisimulation-Based Abstractions 2018 ,		4
158	Demonstration of Indoor Location Privacy Enforcement using Obfuscation. <i>IFAC-PapersOnLine</i> , 2018 , 51, 145-151	0.7	3
157	Opacity Enforcement by Insertion Functions under Energy Constraints. <i>IFAC-PapersOnLine</i> , 2018 , 51, 291-297	0.7	5
156	Insertion Functions with Memory for Opacity Enforcement. <i>IFAC-PapersOnLine</i> , 2018 , 51, 394-399	0.7	7
155	Detection and mitigation of classes of attacks in supervisory control systems. <i>Automatica</i> , 2018 , 97, 121-133	4.33	64
154	Supervisory control and reactive synthesis: a comparative introduction. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2017 , 27, 209-260	1	29
153	On the Decidability and Complexity of Diagnosability for Labeled Petri Nets. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5931-5938	5.9	28
152	Supervisory control for collision avoidance in vehicular networks using discrete event abstractions. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2017 , 27, 1-44	1	10
151	A new approach for the verification of infinite-step and K-step opacity using two-way observers. <i>Automatica</i> , 2017 , 80, 162-171	5.7	63
150	Synthesis of Maximally-Permissive Supervisors for the Range Control Problem. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3914-3929	5.9	25
149	Verification complexity of a class of observational properties for modular discrete events systems. <i>Automatica</i> , 2017 , 83, 199-205	5.7	19
148	From Diagnosability to Opacity: A Brief History of Diagnosability or Lack Thereof * *The authors' research is principally supported by the US National Science Foundation.. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3022-3027	0.7	1
147	Stealthy deception attacks for cyber-physical systems 2017 ,		40
146	Enforcing opacity by publicly known edit functions 2017 ,		7

145	2017,			4
144	Synthesis of Maximally Permissive Supervisors for Partially-Observed Discrete-Event Systems. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1239-1254	5.9		57
143	Matrix integral solutions to the discrete KP hierarchy and its Pfaffianized version. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016 , 49, 475202	2		3
142	Obfuscator Synthesis for Privacy and Utility. <i>Lecture Notes in Computer Science</i> , 2016 , 133-149	0.9		9
141	Enhancing opacity of stochastic discrete event systems using insertion functions 2016,			4
140	2016,			2
139	Synthesis of Optimal Insertion Functions for Opacity Enforcement. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 571-584	5.9		19
138	. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 2140-2154	5.9		85
137	Decentralized Supervisory Control With Intersection-Based Architecture. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3644-3650	5.9		6
136	2016,			22
135	On two-way observer and its application to the verification of infinite-step and K-step opacity 2016,			3
134	A semi-discrete Kadomtsev-Petviashvili equation and its coupled integrable system. <i>Journal of Mathematical Physics</i> , 2016 , 57, 053503	1.2		1
133	On the maximally-permissive range control problem in partially-observed discrete event systems 2016,			1
132	Combustion waves in hydraulically resistant porous media in a special parameter regime. <i>Physica D: Nonlinear Phenomena</i> , 2016 , 332, 23-33	3.3		1
131	Special issue on recent advances in control of discrete event systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2015 , 25, 3-5	1		1
130	Stability of front solutions in a model for a surfactant driven flow on an inclined plane. <i>Physica D: Nonlinear Phenomena</i> , 2015 , 307, 1-13	3.3		2
129	Codiagnosability and coobservability under dynamic observations: Transformation and verification. <i>Automatica</i> , 2015 , 61, 241-252	5.7		30
128	SAT-Based Control of Concurrent Software for Deadlock Avoidance. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 3269-3274	5.9		5

127	Synthesis of opacity-enforcing insertion functions that can be publicly known 2015,		5
126	2015,		2
125	Minimization of sensor activation in decentralized fault diagnosis of discrete event systems 2015,		2
124	A new approach for synthesizing opacity-enforcing supervisors for partially-observed discrete-event systems 2015,		11
123	A general approach for solving dynamic sensor activation problems for a class of properties 2015,		13
122	Synthesis of insertion functions for enforcement of opacity security properties. <i>Automatica</i> , 2014, 50, 1336-1348	5-7	71
121	On Most Permissive Observers in Dynamic Sensor Activation Problems. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 966-981	5-9	15
120	Verification of the Observer Property in Discrete Event Systems. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 2176-2181	5-9	7
119	Bridging the Gap between Supervisory Control and Reactive Synthesis: Case of Full Observation and Centralized Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 222-227		11
118	Fault Diagnosis of Manufacturing Systems Using Finite State Automata. <i>Industrial Information Technology Series</i> , 2014, 601-626		
117	Ensuring Privacy in Location-Based Services: An Approach Based on Opacity Enforcement. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 33-38		16
116	State-Partition-Based Control of Discrete Event Systems for Enforcement of Regular Language Specifications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 2414-2421		
115	A General Approach for Synthesis of Supervisors for Partially-Observed Discrete-Event Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 2422-2428		5
114	Synthesis of maximally permissive non-blocking supervisors for partially observed discrete event systems 2014,		10
113	Eliminating Concurrency Bugs in Multithreaded Software: A New Approach Based on Discrete-Event Control. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 2067-2082	4-8	24
112	Robust diagnosis of discrete-event systems against permanent loss of observations. <i>Automatica</i> , 2013, 49, 223-231	5-7	38
111	Optimal Liveness-Enforcing Control for a Class of Petri Nets Arising in Multithreaded Software. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 1123-1138	5-9	19
110	Comparative analysis of related notions of opacity in centralized and coordinated architectures. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2013, 23, 307-339	1	101

109	Optimal sensor selection for ensuring diagnosability in labeled Petri nets. <i>Automatica</i> , 2013 , 49, 2373-2383	3.7	14
108	Concurrency bugs in multithreaded software: modeling and analysis using Petri nets. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2013 , 23, 157-195	1	23
107	Supervisory control for collision avoidance in vehicular networks using discrete event abstractions 2013 ,		11
106	2013 ,		15
105	Eliminating Concurrency Bugs in Multithreaded Software: An Approach Based on Control of Petri Nets. <i>Lecture Notes in Computer Science</i> , 2013 , 21-28	0.9	1
104	Special issue on recent trends in discrete event systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2012 , 22, 381-382	1	
103	Computation of minimal event bases that ensure diagnosability. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2012 , 22, 249-292	1	30
102	2012 ,		3
101	Enforcement of opacity properties using insertion functions 2012 ,		11
100	Optimal Sensor Selection for Ensuring Diagnosability in Labeled Bounded Petri Nets. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 208-213		1
99	On the Computation of Supremal Sublanguages Relevant to Supervisory Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 175-180		7
98	Explicit Storage and Analysis of Billions of States using Commodity Computers. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 364-371		5
97	. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1551-1566	5.9	42
96	Designing Compact and Maximally Permissive Deadlock Avoidance Policies for Complex Resource Allocation Systems Through Classification Theory: The Linear Case. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1818-1833	5.9	71
95	Active fault tolerant control of discrete event systems using online diagnostics. <i>Automatica</i> , 2011 , 47, 639-649	5.7	92
94	Design of fault trees as a practical method for risk analysis of CCS: Application to the different life stages of deep aquifer storage, combining long-term and short-term issues. <i>Energy Procedia</i> , 2011 , 4, 4193-4198	2.3	10
93	Deadlock-avoidance control of multithreaded software: An efficient siphon-based algorithm for Gadara petri nets 2011 ,		5
92	Squared eigenfunctions and linear stability properties of closed vortex filaments. <i>Nonlinearity</i> , 2011 , 24, 3555-3583	1.7	11

91	A framework for optimization of sensor activation using most permissive observers 2011 ,		3
90	Synthesis of maximally-permissive liveness-enforcing control policies for Gadara petri nets 2010 ,		7
89	A methodology for modular model-building in discrete automation 2010 ,		1
88	On most permissive observers in dynamic sensor optimization problems for discrete event systems 2010 ,		3
87	. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 2447-2461	5.9	30
86	Supervisory Control of Software Execution for Failure Avoidance: Experience from the Gadara Project. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 259-266		10
85	Optimal deadlock avoidance for complex resource allocation systems through classification theory. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 267-274		5
84	Modular Supervisory Control with Equivalence-Based Abstraction and Covering-Based Conflict Resolution. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2010 , 20, 139-185	1	9
83	Optimal sensor activation for diagnosing discrete event systems. <i>Automatica</i> , 2010 , 46, 1165-1175	5.7	38
82	Metodologia e ferramenta de apoio ao teste de não-conflito no controle modular de sistemas a eventos discretos. <i>Controle and Automacao</i> , 2010 , 21, 58-68		1
81	Diagnosability analysis of unbounded Petri nets 2009 ,		26
80	2009 ,		17
79	Verification of Nonconflict of Supervisors Using Abstractions. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2803-2815	5.9	31
78	2009 ,		30
77	An online algorithm for minimal sensor activation in discrete event systems 2009 ,		8
76	Eliminating Concurrency Bugs with Control Engineering. <i>Computer</i> , 2009 , 42, 52-60	1.6	30
75	Predictability of event occurrences in partially-observed discrete-event systems. <i>Automatica</i> , 2009 , 45, 301-311	5.7	79
74	Dynamic sensor activation for event diagnosis 2009 ,		2

73	Maximally permissive deadlock avoidance for multithreaded computer programs (Extended abstract) 2009 ,		1
72	The theory of deadlock avoidance via discrete control. <i>ACM SIGPLAN Notices</i> , 2009 , 44, 252-263	0.2	23
71	The verification of codiagnosability in the case of dynamic observations 2009 ,		2
70	Optimal sensor activation in controlled discrete event systems 2008 ,		8
69	2008 ,		6
68	An algorithm for maximising covered area. <i>International Journal of Control</i> , 2008 , 81, 1493-1505	1.5	2
67	The theory of deadlock avoidance via discrete control 2008 ,		33
66	The application of supervisory control to deadlock avoidance in concurrent software 2008 ,		4
65	Minimization of Communication of Event Occurrences in Acyclic Discrete Event Systems. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 2197-2202	5.9	23
64	Polynomial-time verification of the observer property in abstractions 2008 ,		9
63	Predictability of Sequence Patterns in Discrete Event Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 537-543		25
62	A fault tolerant architecture for supervisory control of discrete event systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 6542-6547		9
61	Diagnosability Analysis of a Class of Hierarchical State Machines. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2008 , 18, 385-413	1	19
60	On the Minimization of Communication in Networked Systems with a Central Station. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2008 , 18, 415-443	1	21
59	Minimization of communication in distributed discrete event systems 2007 ,		3
58	An algorithm for calculating indistinguishable states and clusters in finite-state automata with partially observable transitions. <i>Systems and Control Letters</i> , 2007 , 56, 656-661	2.4	44
57	Diagnosis of Discrete Event Systems Using Decentralized Architectures. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2007 , 17, 233-263	1	99
56	Special Issue on WODES06. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2007 , 17, 423-424	1	

55	Discrete control for safe execution of IT automation workflows 2007 ,		13
54	Minimal Communication for Essential Transitions in a Distributed Discrete-Event System. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1495-1502	5.9	18
53	Discrete control for safe execution of IT automation workflows. <i>Operating Systems Review (ACM)</i> , 2007 , 41, 305-314	0.8	2
52	High Lewis Number Combustion Wavefronts: A Perturbative Melnikov Analysis. <i>SIAM Journal on Applied Mathematics</i> , 2007 , 67, 464-486	1.8	16
51	Predictability in Discrete-Event Systems Under Partial Observation 2007 , 1461-1466		2
50	On the Diagnosability of a Class of Hierarchical State Machines 2007 , 1282-1287		1
49	On Decentralized and Distributed Control of Partially-Observed Discrete Event Systems 2007 , 171-184		8
48	When is negativity not a problem for the ultradiscrete limit?. <i>Journal of Mathematical Physics</i> , 2006 , 47, 103510	1.2	8
47	A Polynomial Algorithm for Minimizing Communication in a Distributed Discrete Event System with a Central Station 2006 ,		3
46	Diagnosis of Patterns in Partially-Observed Discrete-Event Systems 2006 ,		3
45	New Results on Testing Modularity of Local Supervisors using Abstractions 2006 ,		6
44	The Verification and Control of Interacting Similar Discrete-Event Systems. <i>SIAM Journal on Control and Optimization</i> , 2006 , 45, 634-667	1.9	14
43	PREDICTABILITY IN DISCRETE-EVENT SYSTEMS UNDER PARTIAL OBSERVATION 1. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 1461-1466		10
42	ON THE DIAGNOSABILITY OF A CLASS OF HIERARCHICAL STATE MACHINES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 1282-1287		
41	The Dynamics of Stretchable Rods in the Inertial Case. <i>Nonlinear Dynamics</i> , 2006 , 43, 173-195	5	8
40	Solvability of Centralized Supervisory Control Under Partial Observation. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2006 , 16, 527-553	1	13
39	Diagnosability of Discrete Event Systems with Modular Structure. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2006 , 16, 9-37	1	58
38	A DISTRIBUTED ALGORITHM FOR ON-LINE DIAGNOSIS OF PLACE-BORDERED PETRI NETS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 68-73		9

37	Safe diagnosability for fault-tolerant supervision of discrete-event systems. <i>Automatica</i> , 2005 , 41, 1335-1347	3.47	82
36	PSPACE-completeness of Modular Supervisory Control Problems*. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2005 , 15, 145-167	1	15
35	Diagnostic dcentralisdes systmes mlements discrets. <i>Journal Europeen Des Systemes Automatises</i> , 2005 , 39, 95-110	1.8	2
34	Diagnosis of Intermittent Faults. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2004 , 14, 171-202	7.2	
33	Diagnosis of modular discrete event systems 1. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 327-332		7
32	Supervisor Existence for Modular Discrete-Event Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 205-210		
31	On the Effect of Communication Delays in Failure Diagnosis of Decentralized Discrete Event Systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2003 , 13, 263-289	1	28
30	Distributed Diagnosis of Discrete-Event Systems Using Petri Nets. <i>Lecture Notes in Computer Science</i> , 2003 , 316-336	0.9	43
29	On optimal control of a class of partially observed discrete event systems. <i>Automatica</i> , 2002 , 38, 1935-1943	3.7	15
28	A General Architecture for Decentralized Supervisory Control of Discrete-Event Systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2002 , 12, 335-377	1	143
27	On an Optimization Problem in Sensor Selection*. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2002 , 12, 417-445	1	48
26	Recent Advances on the Control of Partially-Observed Discrete-Event Systems 2002 , 3-17		1
25	Incremental model evolution and reusability of supervisors for discrete event systems. <i>Automatica</i> , 2000 , 36, 243-259	5.7	2
24	Coordinated Decentralized Protocols for Failure Diagnosis of Discrete Event Systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2000 , 10, 33-86	1	279
23	On the Synthesis of Optimal Schedulers in Discrete Event Control Problems with Multiple Goals. <i>SIAM Journal on Control and Optimization</i> , 2000 , 39, 512-532	1.9	4
22	A General Architecture for Decentralized Supervisory Control of Discrete-Event Systems 2000 , 111-118		9
21	Introduction to Discrete Event Systems. <i>The Kluwer International Series on Discrete Event Dynamic Systems</i> , 1999 ,		828
20	Supervisory Control. <i>The Kluwer International Series on Discrete Event Dynamic Systems</i> , 1999 , 135-224		

19	Adaptive Look-ahead Optimization of Traffic Signals* Research supported in part by the Rackham Merit Fellowship Program, and by the University of Michigan Research Center of Excellence in Intelligent Transportation Systems funded by FHWA and industrial affiliates. <i>Journal of Intelligent Transportation Systems</i> , 1999 , 4, 209-254		12
18	Discrete Event Systems: The State of the Art and New Directions 1999 , 1-65		1
17	Bisimulation, the Supervisory Control Problem and Strong Model Matching for Finite State Machines. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 1998 , 8, 377-429	1	56
16	An Optimal Control Theory for Discrete Event Systems. <i>SIAM Journal on Control and Optimization</i> , 1998 , 36, 488-541	1.9	60
15	Centralized and distributed algorithms for on-line synthesis of maximal control policies under partial observation. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 1996 , 6, 379-427	1	61
14	Superposition formulas for pseudounitary matrix Riccati equations. <i>Journal of Mathematical Physics</i> , 1996 , 37, 1539-1550	1.2	9
13	Introduction to the Modelling, Control and Optimization of Discrete Event Systems 1995 , 217-291		25
12	Supervisory control using variable lookahead policies. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 1994 , 4, 237-268	1	28
11	Dynamic system-optimal traffic assignment using a state space model. <i>Transportation Research Part B: Methodological</i> , 1993 , 27, 451-472	7.2	11
10	Recursive computation of limited lookahead supervisory controls for discrete event systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 1993 , 3, 71-100	1	14
9	Supervisory Control Using Variable Lookahead Policies 1993 ,		2
8	Extensions to the Theory of Optimal Control of Discrete Event Systems 1993 , 153-160		1
7	A graph-theoretic optimal control problem for terminating discrete event processes. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 1992 , 2, 139-172	1	15
6	On nonconflicting languages that arise in supervisory control of discrete event systems. <i>Systems and Control Letters</i> , 1991 , 17, 105-113	2.4	14
5	On tolerable and desirable behaviors in supervisory control of discrete event systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 1991 , 1, 61-92	1	26
4	A Dynamical System Model for Traffic Assignment in Networks 1991 ,		4
3	A Relational Algebraic Approach to the Representation and Analysis of Discrete Event Systems 1991 ,		4
2	A state transition model for distributed query processing. <i>ACM Transactions on Database Systems</i> , 1986 , 11, 294-322	1.6	32

- 1 A general language-based framework for specifying and verifying notions of opacity. *Discrete Event Dynamic Systems: Theory and Applications*, 1 2