

Lei Feng

List of Publications by Citations

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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.

62

papers

659

citations

13

h-index

23

g-index

68

ext. papers

806

ext. citations

3.4

avg, IF

4.32

L-index

#	Paper	IF	Citations
62	Supervisory Control Architecture for Discrete-Event Systems. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 1449-1461	5.9	92
61	Internet-enabled real-time collaborative assembly modeling via an e-Assembly system: status and promise. <i>CAD Computer Aided Design</i> , 2004 , 36, 835-847	2.9	59
60	Integration of Learning-Based Testing and Supervisory Control for Requirements Conformance of Black-Box Reactive Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2018 , 15, 2-15	4.9	50
59	On the Computation of Natural Observers in Discrete-Event Systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2010 , 20, 63-102	1	41
58	TCT: A Computation Tool for Supervisory Control Synthesis 2006 ,		40
57	A Learning-Based Synthesis Approach to the Supremal Nonblocking Supervisor of Discrete-Event Systems. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 3345-3360	5.9	37
56	Elastodynamic Optimization of a 5-DoF Parallel Kinematic Machine Considering Parameter Uncertainty. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 315-325	5.5	29
55	A structural approach to the non-blocking supervisory control of discrete-event systems. <i>International Journal of Advanced Manufacturing Technology</i> , 2009 , 41, 1152-1168	3.2	27
54	Computationally efficient supervisor design: abstraction and modularity		24
53	An architectural approach to the analysis, verification and validation of software intensive embedded systems. <i>Computing (Vienna/New York)</i> , 2013 , 95, 649-688	2.2	17
52	Case Studies in Learning-Based Testing. <i>Lecture Notes in Computer Science</i> , 2013 , 164-179	0.9	17
51	Supervisory Control of Timed Discrete-Event Systems Subject to Communication Delays and Non-FIFO Observations. <i>IFAC-PapersOnLine</i> , 2018 , 51, 456-463	0.7	17
50	Systems Modeling with EAST-ADL for Fault Tree Analysis through HiP-HOPS*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 91-96		16
49	Reducing auxiliary energy consumption of heavy trucks by onboard prediction and real-time optimization. <i>Applied Energy</i> , 2017 , 188, 652-671	10.7	12
48	On the Computation of Natural Observers in Discrete-Event Systems 2006 ,		12
47	Hierarchical predictive energy management of hybrid electric buses based on driver information. <i>Journal of Cleaner Production</i> , 2020 , 269, 122374	10.3	11
46	Model-Based Safety Engineering of Interdependent Functions in Automotive Vehicles Using EAST-ADL2. <i>Lecture Notes in Computer Science</i> , 2010 , 332-346	0.9	10

45	Development of a micromirror based laser vector scanning automotive HUD 2011 ,		9
44	Designing communicating transaction processes by supervisory control theory. <i>Formal Methods in System Design</i> , 2007 , 30, 117-141	1.4	9
43	Safe Stop Trajectory Planning for Highly Automated Vehicles: An Optimal Control Problem Formulation 2018 ,		9
42	Verifying system behaviors in EAST-ADL2 with the SPIN model checker 2010 ,		8
41	A real-time optimal control method for swing-free tower crane motions 2013 ,		7
40	Optimal Vehicle Control for Fuel Efficiency. <i>SAE International Journal of Commercial Vehicles</i> , 2015 , 8, 682-694	1	6
39	Abstractions for nonblocking supervisory control of Extended Finite Automata 2012 ,		6
38	A Case Study on Achieving Fair Data Age Distribution in Vehicular Communications 2017 ,		5
37	The Optimal Road Grade Design for Minimizing Ground Vehicle Energy Consumption. <i>Energies</i> , 2017 , 10, 700	3.1	5
36	Optimization of Gear Shifting and Torque Split for Improved Fuel Efficiency and Drivability of HEVs 2013 ,		5
35	Supervisory control of extended finite automata using transition projection 2012 ,		5
34	Computationally Efficient Supervisor Design: Control Flow Decomposition		5
33	Optimal shape morphing control of 4D printed shape memory polymer based on reinforcement learning. <i>Robotics and Computer-Integrated Manufacturing</i> , 2022 , 73, 102209	9.2	5
32	Design and Formal Verification of a Safe Stop Supervisor for an Automated Vehicle* 2019 ,		4
31	A cascade control approach to active suspension using pneumatic actuators. <i>Asian Journal of Control</i> , 2019 , 21, 70-88	1.7	4
30	Fuel Minimization of the Electric Engine Cooling System With Active Grille Shutter by Iterative Quadratic Programming. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 2621-2635	6.8	4
29	Fuel efficiency improvement in HEVs using electromechanical brake system 2013 ,		4
28	Early Phase Design-Optimization of Mechatronic Systems 2017 ,		4

27	One-Step Prediction for Improving Gear Changing Control of HEVs. <i>Journal of Robotics and Mechatronics</i> , 2014 , 26, 799-808	0.7	3
26	Autonomic Middleware for Automotive Embedded Systems 2009 , 169-210		3
25	. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 17, 361-374	4.9	3
24	Design and closed loop control of a 3D printed soft actuator 2020 ,		3
23	An Efficient Fault Diagnosis Approach Based on Integer Linear Programming for Labeled Petri Nets. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 2393-2398	5.9	3
22	Optimal Complete Vehicle Control for Fuel Efficiency. <i>Transportation Research Procedia</i> , 2016 , 14, 1087-1096	10.6	2
21	Self configuration of dependent tasks for dynamically reconfigurable automotive embedded systems 2008 ,		2
20	Feedback Control for the Precise Shape Morphing of 4D-Printed Shape Memory Polymer. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 1-1	8.9	2
19	A Position-Control Based Approach to Haptic Rendering of Stiff Objects. <i>IEEE Transactions on Haptics</i> , 2021 , 14, 646-659	2.7	2
18	A geometric programming approach to the optimization of mechatronic systems in early design stages 2016 ,		2
17	A New Approach to Haptic Rendering by Position Control 2019 ,		2
16	Increasing Fuel Efficiency of a Hybrid Electric Competition Car by a Binary Equivalent Consumption Minimization Strategy 2018 ,		2
15	Synthesizing the optimal gait of a quadruped robot with soft actuators using deep reinforcement learning. <i>Robotics and Computer-Integrated Manufacturing</i> , 2022 , 78, 102382	9.2	2
14	On the Computation of Natural Observers for Extended Finite Automata. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 2448-2455		1
13	Nonblocking coordination of discrete-event systems by control-flow nets 2007 ,		1
12	Achieving Online Coordination in Real-Time Collaborative Assembly Modeling: A Supervisory Control Approach. <i>Journal of Computing and Information Science in Engineering</i> , 2006 , 6, 252-262	2.4	1
11	A Bibliometric Analysis on Model-based Systems Engineering 2021 ,		1
10	17 Towards Model-Based Engineering of Self-configuring Embedded Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 345-353	0.9	1

9	Fuel Minimization of a Hybrid Electric Racing Car by Quasi-Pontryagin's Minimum Principle. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 5551-5564	6.8	1
8	A Binary Controller to Ensure Engine Peak Efficiency for a Parallel Hybrid Electric Car* 2019 ,		1
7	Model abstraction for discrete-event systems by binary linear programming with applications to manufacturing systems. <i>Science Progress</i> , 2021 , 104, 368504211030833	1.1	1
6	Optimal road grade design based on stochastic speed trajectories for minimising transportation energy consumption. <i>IET Intelligent Transport Systems</i> , 2021 , 15, 1414	2.4	1
5	A position control-based approach to haptic rendering of stiff objects using piece-wise linear model. <i>Advances in Mechanical Engineering</i> , 2021 , 13, 168781402110648	1.2	0
4	Customized protective visors enabled by closed loop controlled 4D printing.. <i>Scientific Reports</i> , 2022 , 12, 7566	4.9	0
3	An Approach for Supervisor Reduction of Discrete-Event Systems. <i>Lecture Notes in Computer Science</i> , 2020 , 3-14	0.9	
2	A Joint-space Position Control-based Approach to Haptic Rendering of Stiff Objects using Gain Scheduling. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 103, 1	2.9	
1	Revisiting strong detectability of networked discrete-event systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 21-27	0.7	