

Lei Feng

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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 | 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 |
| 61 | Customized protective visors enabled by closed loop controlled 4D printing.. <i>Scientific Reports</i> , 2022 , 12, 7566 | 4.9 | 0 |
| 60 | 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 |
| 59 | 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 | |
| 58 | A Bibliometric Analysis on Model-based Systems Engineering 2021 , | | 1 |
| 57 | 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 |
| 56 | A Position-Control Based Approach to Haptic Rendering of Stiff Objects. <i>IEEE Transactions on Haptics</i> , 2021 , 14, 646-659 | 2.7 | 2 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | Hierarchical predictive energy management of hybrid electric buses based on driver information. <i>Journal of Cleaner Production</i> , 2020 , 269, 122374 | 10.3 | 11 |
| 50 | 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 |
| 49 | An Approach for Supervisor Reduction of Discrete-Event Systems. <i>Lecture Notes in Computer Science</i> , 2020 , 3-14 | 0.9 | |
| 48 | Revisiting strong detectability of networked discrete-event systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 21-27 | 0.7 | |
| 47 | . <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 17, 361-374 | 4.9 | 3 |
| 46 | Design and closed loop control of a 3D printed soft actuator 2020 , | | 3 |

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|----|---|------|----|
| 45 | 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 |
| 44 | Design and Formal Verification of a Safe Stop Supervisor for an Automated Vehicle* 2019 , | | 4 |
| 43 | A cascade control approach to active suspension using pneumatic actuators. <i>Asian Journal of Control</i> , 2019 , 21, 70-88 | 1.7 | 4 |
| 42 | A New Approach to Haptic Rendering by Position Control 2019 , | | 2 |
| 41 | A Binary Controller to Ensure Engine Peak Efficiency for a Parallel Hybrid Electric Car* 2019 , | | 1 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | Increasing Fuel Efficiency of a Hybrid Electric Competition Car by a Binary Equivalent Consumption Minimization Strategy 2018 , | | 2 |
| 35 | Safe Stop Trajectory Planning for Highly Automated Vehicles: An Optimal Control Problem Formulation 2018 , | | 9 |
| 34 | A Case Study on Achieving Fair Data Age Distribution in Vehicular Communications 2017 , | | 5 |
| 33 | 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 |
| 32 | Early Phase Design-Optimization of Mechatronic Systems 2017 , | | 4 |
| 31 | The Optimal Road Grade Design for Minimizing Ground Vehicle Energy Consumption. <i>Energies</i> , 2017 , 10, 700 | 3.1 | 5 |
| 30 | Optimal Complete Vehicle Control for Fuel Efficiency. <i>Transportation Research Procedia</i> , 2016 , 14, 1087-1096 | | 2 |
| 29 | A geometric programming approach to the optimization of mechatronic systems in early design stages 2016 , | | 2 |
| 28 | Optimal Vehicle Control for Fuel Efficiency. <i>SAE International Journal of Commercial Vehicles</i> , 2015 , 8, 682-694 | 1 | 6 |

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| 27 | 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 |
| 26 | One-Step Prediction for Improving Gear Changing Control of HEVs. <i>Journal of Robotics and Mechatronics</i> , 2014 , 26, 799-808 | 0.7 | 3 |
| 25 | 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 |
| 24 | A real-time optimal control method for swing-free tower crane motions 2013 , | | 7 |
| 23 | Fuel efficiency improvement in HEVs using electromechanical brake system 2013 , | | 4 |
| 22 | 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 |
| 21 | Optimization of Gear Shifting and Torque Split for Improved Fuel Efficiency and Drivability of HEVs 2013 , | | 5 |
| 20 | Case Studies in Learning-Based Testing. <i>Lecture Notes in Computer Science</i> , 2013 , 164-179 | 0.9 | 17 |
| 19 | Abstractions for nonblocking supervisory control of Extended Finite Automata 2012 , | | 6 |
| 18 | Supervisory control of extended finite automata using transition projection 2012 , | | 5 |
| 17 | Development of a micromirror based laser vector scanning automotive HUD 2011 , | | 9 |
| 16 | Verifying system behaviors in EAST-ADL2 with the SPIN model checker 2010 , | | 8 |
| 15 | 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 |
| 14 | 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 |
| 13 | 17 Towards Model-Based Engineering of Self-configuring Embedded Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 345-353 | 0.9 | 1 |
| 12 | 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 |
| 11 | Autonomic Middleware for Automotive Embedded Systems 2009 , 169-210 | | 3 |
| 10 | Supervisory Control Architecture for Discrete-Event Systems. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 1449-1461 | 5.9 | 92 |

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|---|---|-----|----|
| 9 | Self configuration of dependent tasks for dynamically reconfigurable automotive embedded systems 2008 , | | 2 |
| 8 | Nonblocking coordination of discrete-event systems by control-flow nets 2007 , | | 1 |
| 7 | Designing communicating transaction processes by supervisory control theory. <i>Formal Methods in System Design</i> , 2007 , 30, 117-141 | 1.4 | 9 |
| 6 | On the Computation of Natural Observers in Discrete-Event Systems 2006 , | | 12 |
| 5 | TCT: A Computation Tool for Supervisory Control Synthesis 2006 , | | 40 |
| 4 | 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 |
| 3 | 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 |
| 2 | Computationally Efficient Supervisor Design: Control Flow Decomposition | | 5 |
| 1 | Computationally efficient supervisor design: abstraction and modularity | | 24 |