# Andreas A Malikopoulos

List of Publications by Year
in descending order

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|---|---|---|---|
| 92<br>papers | 2,990<br>citations | 304368<br>22<br>h-index | 395343<br>33<br>g-index |
| 92<br>all docs | 92<br>docs citations | 92<br>times ranked | 1726<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Enhanced Mobility With Connectivity and Automation: A Review of Shared Autonomous Vehicle Systems. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 87-102. | 2.6 | 46 |
| 2 | Social Media and Misleading Information in a Democracy: A Mechanism Design Approach. IEEE Transactions on Automatic Control, 2022, 67, 2633-2639. | 3.6 | 8 |
| 3 | Optimal Control of Connected and Automated Vehicles at Multiple Adjacent Intersections. IEEE Transactions on Control Systems Technology, 2022, 30, 972-984. | 3.2 | 29 |
| 4 | A Platoon Formation Framework in a Mixed Traffic Environment. , 2022, 6, 1370-1375. | | 22 |
| 5 | Optimal Coordination of Platoons of Connected and Automated Vehicles at Signal-Free Intersections. IEEE Transactions on Intelligent Vehicles, 2022, 7, 186-197. | 9.4 | 31 |
| 6 | Time-Optimal Coordination for Connected and Automated Vehicles at Adjacent Intersections. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13330-13345. | 4.7 | 15 |
| 7 | A Priority-Aware Replanning and Resequencing Framework for Coordination of Connected and Automated Vehicles. , 2022, 6, 1772-1777. | | 11 |
| 8 | Constraint-Driven Optimal Control of Multiagent Systems: A Highway Platooning Case Study. , 2022, 6, 1754-1759. | | 10 |
| 9 | Combined Optimal Routing and Coordination of Connected and Automated Vehicles. , 2022, 6, 2749-2754. | | 6 |
| 10 | Impact of Connectivity on Energy Consumption andÂBattery Life for Electric Vehicles. IEEE Transactions on Intelligent Vehicles, 2021, 6, 14-23. | 9.4 | 32 |
| 11 | An overview on optimal flocking. Annual Reviews in Control, 2021, 51, 88-99. | 4.4 | 32 |
| 12 | Optimal time trajectory and coordination for connected and automated vehicles. Automatica, 2021, 125, 109469. | 3.0 | 61 |
| 13 | Energy-Optimal Motion Planning for Agents: Barycentric Motion and Collision Avoidance Constraints. , 2021, , . | | 5 |
| 14 | Decentralized Cooperative Merging of Platoons of Connected and Automated Vehicles at Highway On-Ramps. , 2021, , . | | 9 |
| 15 | Energy-Optimal Goal Assignment of Multi-Agent System with Goal Trajectories in Polynomials. , 2021, , . | | 1 |
| 16 | Conditions to provable system-wide optimal coordination of connected and automated vehicles. Automatica, 2021, 131, 109751. | 3.0 | 11 |
| 17 | A Hysteretic Q-learning Coordination Framework for Emerging Mobility Systems in Smart Cities. , 2021, , . | | 4 |
| 18 | Design and Stability Analysis of a Shared Mobility Market. , 2021, , . | | 5 |

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| 19 | Guest Editorial Special Issue on Big Data and AI for Computational Transportation in the Cyberâ€"Physicalâ€"Social Space. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7887-7890. | 4.7 | 0 |
| 20 | A Dynamic Program for a Team of Two Agents with Nested Information. , 2021, , . | | 3 |
| 21 | Impact of Connected and Automated Vehicles in a Corridor. , 2020, , . | | 1 |
| 22 | An Optimal Control Approach to Flocking. , 2020, , . | | 6 |
| 23 | Conditions for State and Control Constraint Activation in Coordination of Connected and Automated Vehicles. , 2020, , . | | 5 |
| 24 | Structural Results for Decentralized Stochastic Control with a Word-of-Mouth Communication. , 2020, , . | | 4 |
| 25 | Demonstration of a time-efficient mobility system using a scaled smart city. Vehicle System Dynamics, 2020, 58, 787-804. | 2.2 | 25 |
| 26 | An energy-optimal framework for assignment and trajectory generation in teams of autonomous agents. Systems and Control Letters, 2020, 138, 104670. | 1.3 | 6 |
| 27 | Decentralized optimal coordination of connected and automated vehicles for multiple traffic scenarios. Automatica, 2020, 117, 108958. | 3.0 | 39 |
| 28 | Zero-Shot Autonomous Vehicle Policy Transfer: From Simulation to Real-World via Adversarial Learning. , 2020, , . | | 19 |
| 29 | Social Resource Allocation in a Mobility System with Connected and Automated Vehicles: A Mechanism Design Problem. , 2020, , . | | 5 |
| 30 | Beyond Reynolds: A Constraint-Driven Approach to Cluster Flocking. , 2020, , . | | 4 |
| 31 | A Game-Theoretic Analysis of the Social Impact of Connected and Automated Vehicles. , 2020, , . | | 6 |
| 32 | Experimental Validation of a Real-Time Optimal Controller for Coordination of CAVs in a Multi-Lane Roundabout. , 2020, , . | | 16 |
| 33 | Simulation to scaled city. , 2019, , . | | 29 |
| 34 | A Decentralized Control Framework for Energy-Optimal Goal Assignment and Trajectory Generation. , 2019, , . | | 4 |
| 35 | An Optimal Coordination Framework for Connected and Automated Vehicles in two Interconnected Intersections. , 2019, , . | | 11 |
| 36 | Optimal Vehicle Dynamics and Powertrain Control for Connected and Automated Vehicles. , 2019, , . | | 11 |

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| 37 | Optimal Path Planning for Connected and Automated Vehicles at Urban Intersections. , 2019, , . | | 10 |
| 38 | A Closed-Form Analytical Solution for Optimal Coordination of Connected and Automated Vehicles. , 2019, , . | | 15 |
| 39 | Energy-Optimal Coordination of Connected and Automated Vehicles at Multiple Intersections. , 2019, , . | | 14 |
| 40 | Decentralized Stochastic Control in Partially Nested Information Structures. IFAC-PapersOnLine, 2019, 52, 97-102. | 0.5 | 7 |
| 41 | On the Traffic Impacts of Optimally Controlled Connected and Automated Vehicles. , 2019, , . | | 5 |
| 42 | Optimal Control for Speed Harmonization of Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2405-2417. | 4.7 | 68 |
| 43 | The Multi-objective Dynamic Traveling Salesman Problem: Last Mile Delivery with Unmanned Aerial Vehicles Assistance. , 2019, , . | | 9 |
| 44 | A decentralized energy-optimal control framework for connected automated vehicles at signal-free intersections. Automatica, 2018, 93, 244-256. | 3.0 | 255 |
| 45 | Optimal Control of Connected and Automated Vehicles at Roundabouts: An Investigation in a Mixed-Traffic Environment. IFAC-PapersOnLine, 2018, 51, 73-78. | 0.5 | 61 |
| 46 | A Scaled Smart City for Experimental Validation of Connected and Automated Vehicles. IFAC-PapersOnLine, 2018, 51, 130-135. | 0.5 | 27 |
| 47 | Characterization of the New Class of Driving Cycles for Connected and Automated Vehicles. , 2018, , . | | 2 |
| 48 | Decentralized Optimal Control of Connected and Automated Vehicles in a Corridor. , 2018, , . | | 23 |
| 49 | Impact of Partial Penetrations of Connected and Automated Vehicles on Fuel Consumption and Traffic Flow. IEEE Transactions on Intelligent Vehicles, 2018, 3, 453-462. | 9.4 | 80 |
| 50 | The average cost of Markov chains subject to total variation distance uncertainty. Systems and Control Letters, 2018, 120, 29-35. | 1.3 | 5 |
| 51 | Optimal control of Connected Automated Vehicles at urban traffic intersections: A feasibility enforcement analysis. , 2017, , . | | 23 |
| 52 | Home energy management based on optimal production control scheduling with unknown regime switching. , 2017, , . | | 2 |
| 53 | Automated and Cooperative Vehicle Merging at Highway On-Ramps. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 780-789. | 4.7 | 304 |
| 54 | A Survey on the Coordination of Connected and Automated Vehicles at Intersections and Merging at Highway On-Ramps. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1066-1077. | 4.7 | 564 |

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| 55 | Impact of connected and automated vehicles on traffic flow. , 2017, , . | | 19 |
| 56 | Decentralized optimal control for connected automated vehicles at intersections including left and right turns. , 2017, , . | | 43 |
| 57 | An overview of driver feedback systems for efficiency and safety. , 2016, , . | | 3 |
| 58 | Optimal control and coordination of connected and automated vehicles at urban traffic intersections. , 2016, , . | | 135 |
| 59 | A modeling framework for optimal energy management of a residential building. Energy and Buildings, 2016, 130, 55-63. | 3.1 | 84 |
| 60 | Application of optimal production control theory for home energy management in a micro grid. , 2016, , . | | 9 |
| 61 | A Duality Framework for Stochastic Optimal Control of Complex Systems. IEEE Transactions on Automatic Control, 2016, 61, 2756-2765. | 3.6 | 21 |
| 62 | A Multiobjective Optimization Framework for Online Stochastic Optimal Control in Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2016, 24, 440-450. | 3.2 | 37 |
| 63 | Energy impact of different penetrations of connected and automated vehicles. , 2016, , . | | 9 |
| 64 | A multiobjective optimization framework for stochastic control of complex systems. , 2015, , . | | 12 |
| 65 | Pareto Efficient Policy for Supervisory Power Management Control. , 2015, , . | | 3 |
| 66 | Centralized stochastic optimal control of complex systems. , 2015, , . | | 11 |
| 67 | Online Optimal Control of Connected Vehicles for Efficient Traffic Flow at Merging Roads. , 2015, , . | | 66 |
| 68 | A Consumer-Oriented Control Framework for Performance Analysis in Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2015, 23, 1451-1464. | 3.2 | 12 |
| 69 | Optimal routing of electric vehicles in networks with charging nodes: A dynamic programming approach. , 2014, , . | | 24 |
| 70 | Multi-disciplinary decision making and optimization for hybrid electric propulsion systems. , 2014, , . | | 5 |
| 71 | Supervisory Power Management Control Algorithms for Hybrid Electric Vehicles: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1869-1885. | 4.7 | 184 |
| 72 | Online Identification of Power Required for Self-Sustainability of the Battery in Hybrid Electric Vehicles. , 2014, , . | | 0 |

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| 73 | Impact of Component Sizing in Plug-In Hybrid Electric Vehicles for Energy Resource and Greenhouse Emissions Reduction1. Journal of Energy Resources Technology, Transactions of the ASME, 2013, 135, . | 1.4 | 26 |
| 74 | An Optimization Framework for Driver Feedback Systems. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 955-964. | 4.7 | 51 |
| 75 | Stochastic optimal control for series hybrid electric vehicles. , 2013, , . | | 19 |
| 76 | Optimization of driving styles for fuel economy improvement. , 2012, , . | | 24 |
| 77 | An Optimization Model for Plug-In Hybrid Electric Vehicles. , 2011, , . | | 7 |
| 78 | Thermal management system modelling and component sizing for heavy duty series hybrid electric vehicles. International Journal of Heavy Vehicle Systems, 2011, 18, 272. | 0.1 | 5 |
| 79 | Equilibrium control policies for Markov chains. , 2011, , . | | 8 |
| 80 | A Rollout Control Algorithm for Discrete-Time Stochastic Systems. , 2010, , . | | 1 |
| 81 | Online Identification and Stochastic Control for Autonomous Internal Combustion Engines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, . | 0.9 | 30 |
| 82 | Convergence Properties of a Computational Learning Model for Unknown Markov Chains. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, . | 0.9 | 11 |
| 83 | Real-Time Self-Learning Optimization of Diesel Engine Calibration. Journal of Engineering for Gas Turbines and Power, 2009, 131, . | 0.5 | 34 |
| 84 | A Real-Time Computational Learning Model for Sequential Decision-Making Problems Under Uncertainty. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, . | 0.9 | 14 |
| 85 | Convergence Properties of a Computational Learning Model for Unknown Markov Chains. , 2008, , . | | 1 |
| 86 | Optimal Engine Calibration for Individual Driving Styles. , 2008, , . | | 16 |
| 87 | A Learning Algorithm for Optimal Internal Combustion Engine Calibration in Real Time. , 2007, , 91. | | 15 |
| 88 | Real-Time, Self-Learning Optimization of Diesel Engine Calibration. , 2007, , . | | 6 |
| 89 | A State-Space Representation Model and Learning Algorithm for Real-Time Decision-Making Under Uncertainty. , 2007, , . | | 6 |
| 90 | Simulation of an Integrated Starter Alternator (ISA) System for the HMMWV. , 0, , . | | 13 |

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| 91 | A Decentralized Time- and Energy-Optimal Control Framework for Connected Automated Vehicles: From Simulation to Field Test. , 0, , . | | 15 |
| 92 | Concurrent Optimization of Vehicle Dynamics and Powertrain Operation Using Connectivity and Automation. , 0, , . | | 5 |