Michael W Levin

List of Publications by Year
in descending order

56 papers	1,753 citations	331538 21 h-index	289141 40 g-index
56 all docs	56 docs citations	56 times ranked	1113 citing authors

#	Article	IF	Citations
1	Optimal Control of Autonomous Vehicles for Traffic Smoothing. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3842-3852.	4.7	16
2	Semianalytical Solutions to the Lighthill–Whitham–Richards Equation With Time-Switched Triangular Diagrams: Application to Variable Speed Limit Traffic Control. IEEE Transactions on Automation Science and Engineering, 2022, 19, 473-485.	3.4	2
3	Evasion planning for autonomous intersection control based on an optimized conflict point control formulation. Journal of Transportation Safety and Security, 2022, 14, 2074-2110.	1.1	3
4	Integrating public transit signal priority into max-pressure signal control: Methodology and simulation study on a downtown network. Transportation Research Part C: Emerging Technologies, 2022, 138, 103614.	3.9	17
5	Performance Evaluation of Modified Cyclic Max-Pressure Controlled Intersections in Realistic Corridors. Transportation Research Record, 2022, 2676, 110-128.	1.0	7
6	Microsimulation Study Evaluating the Benefits of Cyclic and Non-Cyclic Max-Pressure Control of Signalized Intersections. Transportation Research Record, 2022, 2676, 303-317.	1.0	3
7	Energy and mobility impacts of connected autonomous vehicles with co-optimization of speed and powertrain on mixed vehicle platoons. Transportation Research Part C: Emerging Technologies, 2022, 142, 103764.	3.9	14
8	A congestion-aware Tabu search heuristic to solve the shared autonomous vehicle routing problem. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2021, 25, 343-355.	2.6	11
9	Effects of short-term travel on COVID-19 spread: A novel SEIR model and case study in Minnesota. PLoS ONE, 2021, 16, e0245919.	1.1	14
10	Optimal parking management of connected autonomous vehicles: A control-theoretic approach. Transportation Research Part C: Emerging Technologies, 2021, 124, 102924.	3.9	21
11	Maximum-stability dispatch policy for shared autonomous vehicles. Transportation Research Part B: Methodological, 2021, 148, 132-151.	2.8	20
12	Online incentive-compatible mechanisms for traffic intersection auctions. European Journal of Operational Research, 2021, 293, 229-247.	3.5	18
13	A Zone-based Dynamic Queueing Model and Maximum-stability Dispatch Policy for Shared Autonomous Vehicles. , 2021, , .		3
14	Freeway network design with exclusive lanes for automated vehicles under endogenous mobility demand. Transportation Research Part C: Emerging Technologies, 2021, 133, 103440.	3.9	13
15	Supply-side network effects on mobile-source emissions. Transport Policy, 2020, 98, 21-34.	3.4	1
16	Optimal Guidance Algorithms for Parking Search with Reservations. Networks and Spatial Economics, 2020, 20, 19-45.	0.7	15
17	Max-pressure signal control with cyclical phase structure. Transportation Research Part C: Emerging Technologies, 2020, 120, 102828.	3.9	29
18	Parking infrastructure design for repositioning autonomous vehicles. Transportation Research Part C: Emerging Technologies, 2020, 120, 102838.	3.9	32

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19	Integration of Microsimulation and Optimized Autonomous Intersection Management. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	10
20	Stability-based analysis of autonomous intersection management with pedestrians. Transportation Research Part C: Emerging Technologies, 2020, 114, 463-483.	3.9	38
21	Arrival Time Reliability in Strategic User Equilibrium. Networks and Spatial Economics, 2020, 20, 803-831.	0.7	3
22	A simple crowdsourced delay-based traffic signal control. PLoS ONE, 2020, 15, e0230598.	1.1	23
23	Effects of Variable Speed Limit on Energy Consumption with Autonomous Vehicles on Urban Roads Using Modified Cell-Transmission Model. Journal of Transportation Engineering Part A: Systems, 2020, 146, 04020049.	0.8	9
24	A network traffic model with controlled autonomous vehicles acting as moving bottlenecks. , 2020, , .		2
25	A linear program for optimal integration of shared autonomous vehicles with public transit. Transportation Research Part C: Emerging Technologies, 2019, 109, 267-288.	3.9	43
26	Linear Program for System Optimal Parking Reservation Assignment. Journal of Transportation Engineering Part A: Systems, 2019, 145, .	0.8	6
27	Implications of traffic signal cybersecurity on potential deliberate traffic disruptions. Transportation Research, Part A: Policy and Practice, 2019, 120, 58-70.	2.0	11
28	Incorporating insights from signal optimization into reservation-based intersection controls. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 250-264.	2.6	14
29	Dynamic Four-Step Planning Model of Empty Repositioning Trips for Personal Autonomous Vehicles. Journal of Transportation Engineering Part A: Systems, 2019, 145, 04019015.	0.8	8
30	Vehicle sensor data-based transportation research: Modeling, analysis, and management. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 99-102.	2.6	14
31	Traffic State Estimation Based on Kalman Filter Technique using Connected Vehicle V2V Basic Safety Messages. , 2019, , .		5
32	Blue phase: Optimal network traffic control for legacy and autonomous vehicles. Transportation Research Part B: Methodological, 2019, 130, 105-129.	2.8	45
33	Max-pressure control of dynamic lane reversal and autonomous intersection management. Transportmetrica B, 2019, 7, 1693-1718.	1.4	13
34	Dynamic User Equilibrium of Mobility-on-Demand System with Linear Programming Rebalancing Strategy. Transportation Research Record, 2019, 2673, 447-459.	1.0	12
35	A Combinatorial Dynamic Network Trajectory Reservation Algorithm for Connected Autonomous Vehicles. Networks and Spatial Economics, 2019, 19, 27-55.	0.7	4
36	Dynamic traffic assignment of cooperative adaptive cruise control. Transportation Research Part C: Emerging Technologies, 2018, 90, 114-133.	3.9	34

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37	Dynamic transit lanes for connected and autonomous vehicles. Public Transport, 2018, 10, 399-426.	1.7	11
38	A general framework for modeling shared autonomous vehicles with dynamic network-loading and dynamic ride-sharing application. Computers, Environment and Urban Systems, 2017, 64, 373-383.	3.3	165
39	Conflict-point formulation of intersection control for autonomous vehicles. Transportation Research Part C: Emerging Technologies, 2017, 85, 528-547.	3.9	115
40	Network-wide adaptive tolling for connected and automated vehicles. Transportation Research Part C: Emerging Technologies, 2017, 84, 142-157.	3.9	31
41	Network-based model for predicting the effect of fuel price on transit ridership and greenhouse gas emissions. International Journal of Transportation Science and Technology, 2017, 6, 272-286.	2.0	2
42	Congestion-aware system optimal route choice for shared autonomous vehicles. Transportation Research Part C: Emerging Technologies, 2017, 82, 229-247.	3.9	108
43	On Optimizing Reservation-Based Intersection Controls. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 505-515.	4.7	62
44	Effects of Autonomous Vehicle Behavior on Arterial and Freeway Networks. Transportation Research Record, 2016, 2561, 9-17.	1.0	36
45	Impact of Autonomous Vehicles on Traffic Management: Case of Dynamic Lane Reversal. Transportation Research Record, 2016, 2567, 87-94.	1.0	27
46	Demand Profiling for Dynamic Traffic Assignment by Integrating Departure Time Choice and Trip Distribution. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 86-99.	6.3	10
47	A cell transmission model for dynamic lane reversal with autonomous vehicles. Transportation Research Part C: Emerging Technologies, 2016, 68, 126-143.	3.9	79
48	Paradoxes of reservation-based intersection controls in traffic networks. Transportation Research, Part A: Policy and Practice, 2016, 90, 14-25.	2.0	55
49	Practice Summary: Improving Bus Routing for KIPP Charter Schools. Interfaces, 2016, 46, 196-199.	1.6	4
50	A multiclass cell transmission model for shared human and autonomous vehicle roads. Transportation Research Part C: Emerging Technologies, 2016, 62, 103-116.	3.9	217
51	System Optimal Dynamic Lane Reversal for Autonomous Vehicles. , 2015, , .		6
52	Warm-starting dynamic traffic assignment with static solutions. Transportmetrica B, 2015, 3, 99-113.	1.4	2
53	Intersection Auctions and Reservation-Based Control in Dynamic Traffic Assignment. Transportation Research Record, 2015, 2497, 35-44.	1.0	59
54	Effects of Autonomous Vehicle Ownership on Trip, Mode, and Route Choice. Transportation Research Record, 2015, 2493, 29-38.	1.0	162

#	ARTICLE	IF	CITATIONS
55	Improving the Convergence of Simulation-based Dynamic Traffic Assignment Methodologies. Networks and Spatial Economics, 2015, 15, 655-676.	0.7	31
56	Effect of Road Grade on Networkwide Vehicle Energy Consumption and Ecorouting. Transportation Research Record, 2014, 2427, 26-33.	1.0	38