Maria Laura Delle Monache

List of Publications by Year
in descending order

40	1,142	516561	434063
papers	citations	16 h-index	31 g-index

45	45	45	698
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dissipation of stop-and-go waves via control of autonomous vehicles: Field experiments. Transportation Research Part C: Emerging Technologies, 2018, 89, 205-221.	3.9	459
2	Are Commercially Implemented Adaptive Cruise Control Systems String Stable?. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6992-7003.	4.7	117
3	Quantifying air quality benefits resulting from few autonomous vehicles stabilizing traffic. Transportation Research, Part D: Transport and Environment, 2019, 67, 351-365.	3.2	79
4	Scalar conservation laws with moving constraints arising in traffic flow modeling: An existence result. Journal of Differential Equations, 2014, 257, 4015-4029.	1.1	59
5	Traffic Flow on a Ring With a Single Autonomous Vehicle: An Interconnected Stability Perspective. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4998-5008.	4.7	47
6	Tracking vehicle trajectories and fuel rates in phantom traffic jams: Methodology and data. Transportation Research Part C: Emerging Technologies, 2019, 99, 82-109.	3.9	39
7	Adjoint-Based Optimization on a Network of Discretized Scalar Conservation Laws with Applications to Coordinated Ramp Metering. Journal of Optimization Theory and Applications, 2015, 167, 733-760.	0.8	33
8	Regularity and Lyapunov Stabilization of Weak Entropy Solutions to Scalar Conservation Laws. IEEE Transactions on Automatic Control, 2017, 62, 1620-1635.	3.6	27
9	A conservative scheme for non-classical solutions to a strongly coupled PDE-ODE problem. Interfaces and Free Boundaries, 2018, 19, 553-570.	0.2	27
10	Online Parameter Estimation Methods for Adaptive Cruise Control Systems. IEEE Transactions on Intelligent Vehicles, 2021, 6, 288-298.	9.4	22
11	A PDE-ODE Model for a Junction with Ramp Buffer. SIAM Journal on Applied Mathematics, 2014, 74, 22-39.	0.8	21
12	A front tracking method for a strongly coupled PDE-ODE system with moving density constraints in traffic flow. Discrete and Continuous Dynamical Systems - Series S, 2014, 7, 435-447.	0.6	21
13	Two-dimensional macroscopic model for large scale traffic networks. Transportation Research Part B: Methodological, 2019, 122, 309-326.	2.8	20
14	Traffic Regulation via Controlled Speed Limit. SIAM Journal on Control and Optimization, 2017, 55, 2936-2958.	1.1	19
15	Feedback Control Algorithms for the Dissipation of Traffic Waves with Autonomous Vehicles. Springer Optimization and Its Applications, 2019, , 275-299.	0.6	18
16	Traffic Reconstruction Using Autonomous Vehicles. SIAM Journal on Applied Mathematics, 2019, 79, 1748-1767.	0.8	16
17	A numerical scheme for moving bottlenecks in traffic flow. Bulletin of the Brazilian Mathematical Society, 2016, 47, 605-617.	0.3	14
18	Stability estimates for scalar conservation laws with moving flux constraints. Networks and Heterogeneous Media, 2017, 12, 245-258.	0.5	11

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19	Discrete-Time System Optimal Dynamic Traffic Assignment (SO-DTA) with Partial Control for Physical Queuing Networks. Transportation Science, 2018, 52, 982-1001.	2.6	10
20	Priority-based Riemann solver for traffic flow on networks. Communications in Mathematical Sciences, 2018, 16, 185-211.	0.5	9
21	A Simple Example of a Two-Dimensional Model for Traffic: Discussion about Assumptions and Numerical Methods. Transportation Research Record, 2018, 2672, 249-261.	1.0	7
22	Traffic Flow Optimization on Roundabouts. Procedia, Social and Behavioral Sciences, 2014, 111, 127-136.	0.5	6
23	Traffic flow optimization on roundabouts. Mathematical Methods in the Applied Sciences, 2015, 38, 3075-3096.	1.2	6
24	On a weaker notion of ring stability for mixed traffic with human-driven and autonomous vehicles. , 2019, , .		6
25	Optimal driving strategies for traffic control with autonomous vehicles. IFAC-PapersOnLine, 2020, 53, 5322-5329.	0.5	5
26	Multi-directional continuous traffic model for large-scale urban networks. Transportation Research Part B: Methodological, 2022, 158, 374-402.	2.8	5
27	2D-LWR in large-scale network with space dependent fundamental diagram. , 2018, , .		4
28	Boundary Control Design for Traffic With Nonlinear Dynamics. IEEE Transactions on Automatic Control, 2022, 67, 1301-1313.	3.6	4
29	A Three-Phase Fundamental Diagram from Three-Dimensional Traffic Data. Axioms, 2021, 10, 17.	0.9	4
30	Boundary Control for Multi-Directional Traffic on Urban Networks. , 2021, , .		4
31	Robust tracking control design for fluid traffic dynamics. , 2019, , .		3
32	String stability of commercial adaptive cruise control vehicles. , 2019, , .		2
33	A decision support and planning mobility method for large scale traffic networks. , 2019, , .		2
34	Equilibrium Manifolds in 2D Fluid Traffic Models. IFAC-PapersOnLine, 2020, 53, 17077-17082.	0.5	2
35	Crowd dynamics evacuations: The roles of shape optimization and real-time computational models. Physics of Life Reviews, 2016, 18, 40-41.	1.5	1
36	Numerical Methods for Hyperbolic Nets and Networks. Handbook of Numerical Analysis, 2017, , 435-463.	0.9	1

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37	Topology-based control design for congested areas in urban networks. , 2020, , .		1
38	Identifiability of car-following dynamics. Physica D: Nonlinear Phenomena, 2022, 430, 133090.	1.3	1
39	Outflow tracking with variable speed limit. , 2016, , .		0
40	Riemann solver for a macroscopic double-lane roundabout model. IFAC-PapersOnLine, 2018, 51, 55-60.	0.5	0