Jack Haddad

List of Publications by Year
in descending order

40 papers	2,209 citations	430754 18 h-index	360920 35 g-index
40 all docs	40 docs citations	40 times ranked	723 citing authors

#	Article	IF	Citations
1	Optimal Perimeter Control for Two Urban Regions With Macroscopic Fundamental Diagrams: A Model Predictive Approach. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 348-359.	4.7	387
2	Dynamics of heterogeneity in urban networks: aggregated traffic modeling and hierarchical control. Transportation Research Part B: Methodological, 2015, 74, 1-19.	2.8	277
3	On the stability of traffic perimeter control in two-region urban cities. Transportation Research Part B: Methodological, 2012, 46, 1159-1176.	2.8	217
4	Cooperative traffic control of a mixed network with two urban regions and a freeway. Transportation Research Part B: Methodological, 2013, 54, 17-36.	2.8	211
5	Robust perimeter control design for an urban region. Transportation Research Part B: Methodological, 2014, 68, 315-332.	2.8	162
6	Optimal perimeter control synthesis for two urban regions with aggregate boundary queue dynamics. Transportation Research Part B: Methodological, 2017, 96, 1-25.	2.8	109
7	Optimal Hybrid Perimeter and Switching Plans Control for Urban Traffic Networks. IEEE Transactions on Control Systems Technology, 2015, 23, 464-478.	3.2	102
8	Adaptive perimeter traffic control of urban road networks based on MFD model with time delays. International Journal of Robust and Nonlinear Control, 2016, 26, 1267-1285.	2.1	78
9	Coordinated distributed adaptive perimeter control for large-scale urban road networks. Transportation Research Part C: Emerging Technologies, 2017, 77, 495-515.	3.9	77
10	Adaptive perimeter control for multi-region accumulation-based models with state delays. Transportation Research Part B: Methodological, 2020, 137, 133-153.	2.8	74
11	Max-pressure traffic controller based on travel times: An experimental analysis. Transportation Research Part C: Emerging Technologies, 2020, 110, 275-290.	3.9	61
12	Robust constrained control of uncertain macroscopic fundamental diagram networks. Transportation Research Part C: Emerging Technologies, 2015, 59, 323-339.	3.9	58
13	Vehicle platoon formation using interpolating control: A laboratory experimental analysis. Transportation Research Part C: Emerging Technologies, 2017, 84, 21-47.	3.9	56
14	Optimal coupled and decoupled perimeter control in one-region cities. Control Engineering Practice, 2017, 61, 134-148.	3.2	45
15	Optimal Steady-State Control for Isolated Traffic Intersections. IEEE Transactions on Automatic Control, 2010, 55, 2612-2617.	3.6	43
16	Fundamental diagrams of airport surface traffic: Models and applications. Transportation Research Part B: Methodological, 2017, 106, 29-51.	2.8	34
17	Resilient perimeter control of macroscopic fundamental diagram networks under cyberattacks. Transportation Research Part B: Methodological, 2020, 132, 44-59.	2.8	33
18	Optimal traffic control synthesis for an isolated intersection. Control Engineering Practice, 2011, 19, 900-911.	3.2	27

#	Article	IF	Citations
19	Optimal hybrid macroscopic traffic control for urban regions: Perimeter and switching signal plans controllers. , 2013, , .		20
20	Automatic incident detection on freeways based on Bluetooth traffic monitoring. Accident Analysis and Prevention, 2020, 146, 105703.	3.0	18
21	Discrete dynamic optimization of N-stages control for isolated signalized intersections. Control Engineering Practice, 2013, 21, 1553-1563.	3.2	13
22	Offset effects on the capacity of paired signalised intersections during oversaturated conditions. Transportmetrica A: Transport Science, 2014, 10, 740-758.	1.3	12
23	Constrained optimal steady-state control for isolated traffic intersections. Control Theory and Technology, 2014, 12, 84-94.	1.0	12
24	Resilient multivariable perimeter control of urban road networks under cyberattacks. Control Engineering Practice, 2021, 109, 104718.	3.2	11
25	Traffic flow modeling and feedback control for future Low-Altitude Air city Transport: An MFD-based approach. Transportation Research Part C: Emerging Technologies, 2021, 133, 103380.	3.9	11
26	Optimal Steady-State Traffic Control for Isolated Intersections. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 96-101.	0.4	8
27	Tracking with asymptotic sliding mode and adaptive input delay effect compensation of nonlinearly perturbed delayed systems applied to traffic feedback control. International Journal of Control, 2016, 89, 1890-1903.	1.2	8
28	Adaptive tracking of uncertain nonlinear systems under different types of input delays with urban traffic perimeter control application. International Journal of Robust and Nonlinear Control, 2021, 31, 6975-6990.	2.1	8
29	Steady-state and N-stages control for isolated controlled intersections. , 2009, , .		7
30	Adaptive multiple input delays compensation under input constraints applied to perimeter traffic control. IFAC-PapersOnLine, 2016, 49, 141-146.	0.5	6
31	Robust Constrained Control of Uncertain Macroscopic Fundamental Diagram Networks. Transportation Research Procedia, 2015, 7, 669-688.	0.8	5
32	Optimal combined traffic routing and signal control in simple road networks: an analytical solution. Transportmetrica A: Transport Science, 2021, 17, 308-339.	1.3	4
33	Vehicle Platoon Formation Using Interpolating Control. IFAC-PapersOnLine, 2015, 48, 414-419.	0.5	3
34	Distributed fault tolerant perimeter control for urban road networks. IFAC-PapersOnLine, 2017, 50, 4234-4239.	0.5	3
35	Robust Interpolating Traffic Signal Control for Uncertain Road Networks. , 2019, , .		3
36	Distributed adaptive perimeter control for large-scale urban road networks with delayed state interconnections * *This work was supported by the Israel Science Foundation under Grant 2043/15. IFAC-PapersOnLine, 2017, 50, 5295-5300.	0.5	2

#	ARTICLE	IF	CITATIONS
37	Resilient Perimeter Control of Macroscopic Fundamental Diagram Networks under Cyberattacks. Transportation Research Procedia, 2019, 38, 56-76.	0.8	2
38	Steady-State Traffic Control with Green Duration Constraints for Isolated Intersections. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 205-210.	0.4	1
39	Two-level hierarchical traffic control for heterogeneous urban networks. , 2015, , .		1
40	Special Issue on Advances in Modeling, Simulation and Optimization of Dynamic Network Traffic. Transportation Research Part C: Emerging Technologies, 2018, 95, 442-444.	3.9	0