

# Stelios Timotheou

## List of Publications by Year in Descending Order

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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.

66 papers	2,405 citations	20 h-index	48 g-index
79 ext. papers	2,874 ext. citations	3.9 avg, IF	5.58 L-index

#	Paper	IF	Citations
66	Optimal Secondary Frequency Regulation With ON-OFF Loads in Power Networks. <i>IEEE Transactions on Control Systems Technology</i> , <b>2022</b> , 1-16	4.8	0
65	Real-time optimization of fuel-consumption and travel-time of CAVs for cooperative intersection crossing. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2022</b> , 1-1	5	1
64	Optimal intervention strategies to mitigate the COVID-19 pandemic effects.. <i>Scientific Reports</i> , <b>2022</b> , 12, 6124	4.9	0
63	Energy Management and Control of Photovoltaic and Storage Systems in Active Distribution Grids. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 1-1	7	2
62	Leakage detection and localization in water distribution systems: A model invalidation approach. <i>Control Engineering Practice</i> , <b>2021</b> , 110, 104755	3.9	6
61	Energy Management and Control of a Flywheel Storage System for Peak Shaving Applications. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 12, 4195-4207	10.7	8
60	Joint Route Guidance and Demand Management for Real-Time Control of Multi-Regional Traffic Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-14	6.1	1
59	Optimal Control for Connected and Autonomous Vehicles at Signal-Free Intersections. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 15306-15311	0.7	3
58	Unscented stochastic model predictive perimeter control of uncertain two-regions urban traffic. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 14930-14935	0.7	1
57	Joint route guidance and demand management using generalized MFDs. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 15023-15028	0.7	1
56	A Benchmark Test Suite for the Electric Capacitated Vehicle Routing Problem <b>2020</b> ,		2
55	Optimizing the trade-off between fuel consumption and travel time in an unsignalized autonomous intersection crossing <b>2019</b> ,		6
54	Drones: Augmenting Our Quality of Life. <i>IEEE Potentials</i> , <b>2019</b> , 38, 30-36	1	28
53	Secure SWIPT by Exploiting Constructive Interference and Artificial Noise. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 1326-1340	6.9	20
52	Minimizing Traffic Congestion Through Continuous-Time Route Reservations With Travel Time Predictions. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2019</b> , 4, 141-153	5	9
51	Iterative Hydraulic Interval State Estimation for Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2019</b> , 145, 04018087	2.8	9
50	Distributed Contaminant Detection and Isolation for Intelligent Buildings. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 1925-1941	4.8	8

49	Optimized vision-directed deployment of UAVs for rapid traffic monitoring <b>2018</b> ,		13
48	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2018</b> , 28, 1197-1211	6.4	5
47	Optimizing Container Loading With Autonomous Robots. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2018</b> , 15, 717-731	4.9	9
46	Harnessing Interference in SWIPT Systems <b>2018</b> , 181-196		
45	Performance Index for Optimizing Sensor Fault Detection of a Class of Nonlinear Systems. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 1387-1394	0.7	1
44	Partitioning of Intelligent Buildings for Distributed Contaminant Detection and Isolation. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2017</b> , 1, 72-86	4.1	12
43	Controlling road congestion via a low-complexity route reservation approach. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2017</b> , 81, 118-136	8.4	27
42	Optimizing Multi-Target Detection in Stochastic Environments with Active Smart Camera Networks <b>2017</b> ,		2
41	Minimal Load Shedding Using the Swing Equation. <i>IEEE Transactions on Power Systems</i> , <b>2017</b> , 32, 2466-2467	4.7	31
40	Optimization of observer design for sensor fault detection of nonlinear systems <b>2017</b> ,		2
39	Improved Road Usage Through Congestion-Free Route Reservations. <i>Transportation Research Record</i> , <b>2017</b> , 2621, 71-80	1.7	12
38	Assignment and Coordination of Autonomous Robots in Container Loading Terminals. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 9712-9717	0.7	2
37	FAST NON-NEGATIVE LEAST-SQUARES LEARNING IN THE RANDOM NEURAL NETWORK. <i>Probability in the Engineering and Informational Sciences</i> , <b>2016</b> , 30, 379-402	0.6	1
36	Symbol-level precoding in MISO broadcast channels for SWIPT systems <b>2016</b> ,		6
35	Multi-constraint building partitioning formulation for effective contaminant detection and isolation <b>2016</b> ,		3
34	Exploiting Constructive Interference for Simultaneous Wireless Information and Power Transfer in Multiuser Downlink Systems. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2016</b> , 34, 1772-1784	14.2	43
33	. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 4115-4128	9.6	25
32	Fairness for Non-Orthogonal Multiple Access in 5G Systems. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 1643-1651	3.1	13

31	Security-Aware MaxMin Resource Allocation in Multiuser OFDMA Downlink. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2015</b> , 10, 529-542	8	28
30	Network Traffic Signal Control with Nonconvex Alternating Direction Method of Multipliers Formulations. <i>Transportation Research Record</i> , <b>2015</b> , 2490, 11-20	1.7	
29	Transportation Systems: Monitoring, Control, and Security. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 125-166	0.8	2
28	Swipt through eigen-decomposition of mimo channels <b>2015</b> ,		2
27	Moving horizon fault-tolerant traffic state estimation for the Cell Transmission Model <b>2015</b> ,		3
26	Exploring green interference power for wireless information and energy transfer in the MISO downlink <b>2015</b> ,		5
25	On the Complexity of Congestion Free Routing in Transportation Networks <b>2015</b> ,		1
24	. <i>IEEE Transactions on Communications</i> , <b>2014</b> , 62, 1577-1587	6.9	116
23	. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 2646-2658	9.6	155
22	Fair resource allocation in multiuser OFDMA downlink with passive eavesdropping <b>2014</b> ,		1
21	Design of pupil filter for extended depth of focus and lateral superresolution in optical coherence tomography <b>2014</b> ,		1
20	Rethinking the role of interference in wireless networks <b>2014</b> , 52, 152-158		77
19	Online distributed network traffic signal control using the cell transmission model <b>2014</b> ,		2
18	Simultaneous wireless information and power transfer in modern communication systems <b>2014</b> , 52, 104-110		573
17	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2014</b> , 1-15	6.1	9
16	MISO interference channel with QoS and RF energy harvesting constraints <b>2013</b> ,		25
15	Joint information and energy transfer in the spatial domain with channel estimation error <b>2013</b> ,		8
14	Towards distributed online cooperative traffic signal control using the cell transmission model <b>2013</b> ,		6

13	. <i>IEEE Communications Letters</i> , <b>2012</b> , 16, 1772-1775	3.8	214
12	Network flow approaches for an asset-task assignment problem with execution uncertainty. <i>Lecture Notes in Electrical Engineering</i> , <b>2011</b> , 33-38	0.2	1
11	The Random Neural Network: A Survey. <i>Computer Journal</i> , <b>2010</b> , 53, 251-267	1.3	72
10	Fast Distributed Near-Optimum Assignment of Assets to Tasks. <i>Computer Journal</i> , <b>2010</b> , 53, 1360-1369	1.3	32
9	A random neural network approach to an assets to tasks assignment problem <b>2010</b> ,		2
8	Autonomous networked robots for the establishment of wireless communication in uncertain emergency response scenarios <b>2009</b> ,		27
7	A novel weight initialization method for the random neural network. <i>Neurocomputing</i> , <b>2009</b> , 73, 160-168	5.4	18
6	Connecting trapped civilians to a wireless ad hoc network of emergency response robots <b>2008</b> ,		2
5	Robotic wireless network connection of civilians for emergency response operations <b>2008</b> ,		11
4	Random neural networks with synchronized interactions. <i>Neural Computation</i> , <b>2008</b> , 20, 2308-24	2.9	112
3	Synchronized Interactions in Spiked Neuronal Networks. <i>Computer Journal</i> , <b>2008</b> , 51, 723-730	1.3	29
2	Emergency Response Simulation Using Wireless Sensor Networks <b>2008</b> ,		46
1	Nonnegative Least Squares Learning for the Random Neural Network. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 195-204	0.9	8