Stelios Timotheou

List of Publications by Citations

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	Simultaneous wireless information and power transfer in modern communication systems **2014**, 52, 104-110		573
65	Fairness for Non-Orthogonal Multiple Access in 5G Systems. *IEEE Signal Processing Letters*, **2015**, 22, 1647-1651	3.2	513
64	. *IEEE Communications Letters*, **2012**, 16, 1772-1775	3.8	214
63	. *IEEE Transactions on Wireless Communications*, **2014**, 13, 2646-2658	9.6	155
62	. *IEEE Transactions on Communications*, **2014**, 62, 1577-1587	6.9	116
61	Random neural networks with synchronized interactions. *Neural Computation*, **2008**, 20, 2308-24	2.9	112
60	Rethinking the role of interference in wireless networks **2014**, 52, 152-158		77
59	The Random Neural Network: A Survey. *Computer Journal*, **2010**, 53, 251-267	1.3	72
58	Emergency Response Simulation Using Wireless Sensor Networks **2008**,		46
57	Exploiting Constructive Interference for Simultaneous Wireless Information and Power Transfer in Multiuser Downlink Systems. *IEEE Journal on Selected Areas in Communications*, **2016**, 34, 1772-1784	14.2	43
56	Fast Distributed Near-Optimum Assignment of Assets to Tasks. *Computer Journal*, **2010**, 53, 1360-1369	1.3	32
55	Minimal Load Shedding Using the Swing Equation. *IEEE Transactions on Power Systems*, **2017**, 32, 2466-2467	7	31
54	Synchronized Interactions in Spiked Neuronal Networks. *Computer Journal*, **2008**, 51, 723-730	1.3	29
53	Security-Aware Max Min Resource Allocation in Multiuser OFDMA Downlink. *IEEE Transactions on Information Forensics and Security*, **2015**, 10, 529-542	8	28
52	Drones: Augmenting Our Quality of Life. *IEEE Potentials*, **2019**, 38, 30-36	1	28
51	Controlling road congestion via a low-complexity route reservation approach. *Transportation Research Part C: Emerging Technologies*, **2017**, 81, 118-136	8.4	27
50	Autonomous networked robots for the establishment of wireless communication in uncertain emergency response scenarios **2009**,		27

#	Reference	IF	Cit.
49	. *IEEE Transactions on Wireless Communications*, **2015**, 14, 4115-4128	9.6	25
48	MISO interference channel with QoS and RF energy harvesting constraints **2013**,		25
47	Secure SWIPT by Exploiting Constructive Interference and Artificial Noise. *IEEE Transactions on Communications*, **2019**, 67, 1326-1340	6.9	20
46	A novel weight initialization method for the random neural network. *Neurocomputing*, **2009**, 73, 160-168	5.4	18
45	Optimized vision-directed deployment of UAVs for rapid traffic monitoring **2018**,		13
44	Partitioning of Intelligent Buildings for Distributed Contaminant Detection and Isolation. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2017**, 1, 72-86	4.1	12
43	Improved Road Usage Through Congestion-Free Route Reservations. *Transportation Research Record*, **2017**, 2621, 71-80	1.7	12
42	Robotic wireless network connection of civilians for emergency response operations **2008**,		11
41	Optimizing Container Loading With Autonomous Robots. *IEEE Transactions on Automation Science and Engineering*, **2018**, 15, 717-731	4.9	9
40	. *IEEE Transactions on Intelligent Transportation Systems*, **2014**, 1-15	6.1	9
39	Minimizing Traffic Congestion Through Continuous-Time Route Reservations With Travel Time Predictions. *IEEE Transactions on Intelligent Vehicles*, **2019**, 4, 141-153	5	9
38	Iterative Hydraulic Interval State Estimation for Water Distribution Networks. *Journal of Water Resources Planning and Management - ASCE*, **2019**, 145, 04018087	2.8	9
37	Distributed Contaminant Detection and Isolation for Intelligent Buildings. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 1925-1941	4.8	8
36	Joint information and energy transfer in the spatial domain with channel estimation error **2013**,		8
35	Nonnegative Least Squares Learning for the Random Neural Network. *Lecture Notes in Computer Science*, **2008**, 195-204	0.9	8
34	Energy Management and Control of a Flywheel Storage System for Peak Shaving Applications. *IEEE Transactions on Smart Grid*, **2021**, 12, 4195-4207	10.7	8
33	Towards distributed online cooperative traffic signal control using the cell transmission model **2013**,		6
32	Leakage detection and localization in water distribution systems: A model invalidation approach. *Control Engineering Practice*, **2021**, 110, 104755	3.9	6

31	Symbol-level precoding in MISO broadcast channels for SWIPT systems **2016**,		6
30	Optimizing the trade-off between fuel consumption and travel time in an unsignalized autonomous intersection crossing **2019**,		6
29	. *IEEE Transactions on Circuits and Systems for Video Technology*, **2018**, 28, 1197-1211	6.4	5
28	Exploring green interference power for wireless information and energy transfer in the MISO downlink **2015**,		5
27	Moving horizon fault-tolerant traffic state estimation for the Cell Transmission Model **2015**,		3
26	Optimal Control for Connected and Autonomous Vehicles at Signal-Free Intersections. *IFAC-PapersOnLine*, **2020**, 53, 15306-15311	0.7	3
25	Multi-constraint building partitioning formulation for effective contaminant detection and isolation **2016**,		3
24	Optimizing Multi-Target Detection in Stochastic Environments with Active Smart Camera Networks **2017**,		2
23	Optimization of observer design for sensor fault detection of nonlinear systems **2017**,		2
22	Assignment and Coordination of Autonomous Robots in Container Loading Terminals. *IFAC-PapersOnLine*, **2017**, 50, 9712-9717	0.7	2
21	Transportation Systems: Monitoring, Control, and Security. *Studies in Computational Intelligence*, **2015**, 125-166	0.8	2
20	Swipt through eigen-decomposition of mimo channels **2015**,		2
19	Online distributed network traffic signal control using the cell transmission model **2014**,		2
18	A random neural network approach to an assets to tasks assignment problem **2010**,		2
17	Connecting trapped civilians to a wireless ad hoc network of emergency response robots **2008**,		2
16	Energy Management and Control of Photovoltaic and Storage Systems in Active Distribution Grids. *IEEE Transactions on Power Systems*, **2021**, 1-1	7	2
15	A Benchmark Test Suite for the Electric Capacitated Vehicle Routing Problem **2020**,		2
14	Fair resource allocation in multiuser OFDMA downlink with passive eavesdropping **2014**,		1

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13	On the Complexity of Congestion Free Routing in Transportation Networks **2015**,		1
12	Design of pupil filter for extended depth of focus and lateral superresolution in optical coherence tomography **2014**,		1
11	Unscented stochastic model predictive perimeter control of uncertain two-regions urban traffic. *IFAC-PapersOnLine*, **2020**, 53, 14930-14935	0.7	1
10	Joint route guidance and demand management using generalized MFDs. *IFAC-PapersOnLine*, **2020**, 53, 15023-15028	0.7	1
9	Network flow approaches for an asset-task assignment problem with execution uncertainty. *Lecture Notes in Electrical Engineering*, **2011**, 33-38	0.2	1
8	FAST NON-NEGATIVE LEAST-SQUARES LEARNING IN THE RANDOM NEURAL NETWORK. *Probability in the Engineering and Informational Sciences*, **2016**, 30, 379-402	0.6	1
7	Performance Index for Optimizing Sensor Fault Detection of a Class of Nonlinear Systems. *IFAC-PapersOnLine*, **2018**, 51, 1387-1394	0.7	1
6	Joint Route Guidance and Demand Management for Real-Time Control of Multi-Regional Traffic Networks. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-14	6.1	1
5	Real-time optimization of fuel-consumption and travel-time of CAVs for cooperative intersection crossing. *IEEE Transactions on Intelligent Vehicles*, **2022**, 1-1	5	1
4	Optimal Secondary Frequency Regulation With ON-OFF Loads in Power Networks. *IEEE Transactions on Control Systems Technology*, **2022**, 1-16	4.8	0
3	Optimal intervention strategies to mitigate the COVID-19 pandemic effects.. *Scientific Reports*, **2022**, 12, 6124	4.9	0
2	Network Traffic Signal Control with Nonconvex Alternating Direction Method of Multipliers Formulations. *Transportation Research Record*, **2015**, 2490, 11-20	1.7	
1	Harnessing Interference in SWIPT Systems **2018**, 181-196		