Lâ€uboÅ¡ Buzna

List of Publications by Year
in descending order

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39	2,248	567281 15	377865 34
papers	citations	h-index	g-index

41	41	41	1876
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-Organized Pedestrian Crowd Dynamics: Experiments, Simulations, and Design Solutions. Transportation Science, 2005, 39, 1-24.	4.4	1,168
2	Transient Dynamics Increasing Network Vulnerability to Cascading Failures. Physical Review Letters, 2008, 100, 218701.	7.8	201
3	Modelling the dynamics of disaster spreading in networks. Physica A: Statistical Mechanics and Its Applications, 2006, 363, 132-140.	2.6	107
4	Efficient response to cascading disaster spreading. Physical Review E, 2007, 75, 056107.	2.1	75
5	Robustness of trans-European gas networks. Physical Review E, 2009, 80, 016106.	2.1	75
6	An ensemble methodology for hierarchical probabilistic electric vehicle load forecasting at regular charging stations. Applied Energy, 2021, 283, 116337.	10.1	71
7	Modelling of cascading effects and efficient response to disaster spreading in complex networks. International Journal of Critical Infrastructures, 2008, 4, 46.	0.2	68
8	Role of network topology in the synchronization of power systems. European Physical Journal B, 2012, 85, 1.	1.5	66
9	Resilience of Natural Gas Networks during Conflicts, Crises and Disruptions. PLoS ONE, 2014, 9, e90265.	2.5	51
10	Synchronization in symmetric bipolar population networks. Physical Review E, 2009, 80, 066120.	2.1	40
11	Geometric Correlations Mitigate the Extreme Vulnerability of Multiplex Networks against Targeted Attacks. Physical Review Letters, 2017, 118, 218301.	7.8	39
12	Predicting Popularity of Electric Vehicle Charging Infrastructure in Urban Context. IEEE Access, 2020, 8, 11315-11327.	4.2	36
13	An acceleration of Erlenkotter-KÃ¶rkelâ€™s algorithms forÂtheÂuncapacitated facility location problem. Annals of Operations Research, 2008, 164, 97-109.	4.1	24
14	Electric vehicle load forecasting: A comparison between time series and machine learning approaches. , 2019, , .		23
15	Critical behaviour in charging of electric vehicles. New Journal of Physics, 2015, 17, 095001.	2.9	20
16	The evolution of the topology of high-voltage electricity networks. International Journal of Critical Infrastructures, 2009, 5, 72.	0.2	19
17	Stochastic Modelling of the Effects of Interdependencies between Critical Infrastructure. Lecture Notes in Computer Science, 2010, , 201-212.	1.3	16
18	A versatile adaptive aggregation framework for spatially large discrete location-allocation problems. Computers and Industrial Engineering, 2017, 111, 364-380.	6.3	15

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19	Decelerated spreading in degree-correlated networks. Physical Review E, 2012, 85, 015101.	2.1	14
20	An Approximation Algorithm for the Facility Location Problem with Lexicographic Minimax Objective. Journal of Applied Mathematics, 2014, 2014, 1-12.	0.9	13
21	Controlling congestion on complex networks: fairness, efficiency and network structure. Scientific Reports, 2017, 7, 9152.	3.3	13
22	Proportionally Fairer Public Service Systems Design. Communications - Scientific Letters of the University of Zilina, 2013, 15, 14-18.	0.6	13
23	Analysis of Energy Consumption at Slow Charging Infrastructure for Electric Vehicles. IEEE Access, 2021, 9, 53885-53901.	4.2	11
24	Pedestrian Dynamics and Evacuation. , 2005, , 85-104.		10
25	Fair sharing of resources in a supply network with constraints. Physical Review E, 2012, 85, 046101.	2.1	9
26	Preprocessing of GIS data for electric vehicle charging stations analysis and evaluation of the predictors significance. Transportation Research Procedia, 2019, 40, 1583-1590.	1.5	9
27	A Feasibility Study of Privacy Ensuring Emergency Vehicle Approaching Warning System. Applied Sciences (Switzerland), 2020, 10, 298.	2.5	8
28	The Effects of Vehicle-to-Infrastructure Communication Reliability on Performance of Signalized Intersection Traffic Control. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15450-15461.	8.0	8
29	Optimized Design of Large-Scale Social Welfare Supporting Systems on Complex Networks. Springer Optimization and Its Applications, 2012, , 337-361.	0.9	6
30	Large-scale test data set for location problems. Data in Brief, 2018, 17, 267-274.	1.0	5
31	On the Modelling of Emergency Ambulance Trips: The Case of the Å½ilina Region in Slovakia. Mathematics, 2021, 9, 2165.	2.2	5
32	Effects of demand estimates on the evaluation and optimality of service centre locations. International Journal of Geographical Information Science, 2016, 30, 765-784.	4.8	3
33	Use Cases and Introductory Analysis of the Dataset Collected Within the Large Network of Public Charging Stations. Lecture Notes in Networks and Systems, 2019, , 203-213.	0.7	2
34	Congestion dependencies in the European gas pipeline network during crises. , 2014, , .		1
35	An Approximative Lexicographic Min-Max Approach to the Discrete Facility Location Problem. Operations Research Proceedings: Papers of the Annual Meeting = VortrÃge Der Jahrestagung / DGOR, 2016, , 71-76.	0.1	1
36	Re-Aggregation Heuristics for the Large Location Problems with Lexicographic Minimax Objective. Communications - Scientific Letters of the University of Zilina, 2015, 17, 4-10.	0.6	1

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37	Impact of Charging Infrastructure Surroundings on Temporal Characteristics of Electric Vehicle Charging Sessions. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 160-174.	0.3	0
38	The Onset of Congestion in Charging of Electric Vehicles for Proportionally Fair Network Management Protocol. Operations Research Proceedings: Papers of the Annual Meeting = VortrÃge Der Jahrestagung / DGOR, 2017, , 95-100.	0.1	0
39	An Efficient Framework to Estimate the State of Charge Profiles of Hydro Units for Large-Scale Zonal and Nodal Pricing Models. Energies, 2022, 15, 4233.	3.1	0