

# LêuboÅ; Buzna

## List of Publications by Year in descending order

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39  
papers

2,248  
citations

566801

15  
h-index

377514

34  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1876  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Organized Pedestrian Crowd Dynamics: Experiments, Simulations, and Design Solutions. <i>Transportation Science</i> , 2005, 39, 1-24.	2.6	1,168
2	Transient Dynamics Increasing Network Vulnerability to Cascading Failures. <i>Physical Review Letters</i> , 2008, 100, 218701.	2.9	201
3	Modelling the dynamics of disaster spreading in networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 363, 132-140.	1.2	107
4	Efficient response to cascading disaster spreading. <i>Physical Review E</i> , 2007, 75, 056107.	0.8	75
5	Robustness of trans-European gas networks. <i>Physical Review E</i> , 2009, 80, 016106.	0.8	75
6	An ensemble methodology for hierarchical probabilistic electric vehicle load forecasting at regular charging stations. <i>Applied Energy</i> , 2021, 283, 116337.	5.1	71
7	Modelling of cascading effects and efficient response to disaster spreading in complex networks. <i>International Journal of Critical Infrastructures</i> , 2008, 4, 46.	0.1	68
8	Role of network topology in the synchronization of power systems. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	66
9	Resilience of Natural Gas Networks during Conflicts, Crises and Disruptions. <i>PLoS ONE</i> , 2014, 9, e90265.	1.1	51
10	Synchronization in symmetric bipolar population networks. <i>Physical Review E</i> , 2009, 80, 066120.	0.8	40
11	Geometric Correlations Mitigate the Extreme Vulnerability of Multiplex Networks against Targeted Attacks. <i>Physical Review Letters</i> , 2017, 118, 218301.	2.9	39
12	Predicting Popularity of Electric Vehicle Charging Infrastructure in Urban Context. <i>IEEE Access</i> , 2020, 8, 11315-11327.	2.6	36
13	An acceleration of Erlenkotter-KÄƒrkelÄ™s algorithms forÄ™theÄ™uncapacitated facility location problem. <i>Annals of Operations Research</i> , 2008, 164, 97-109.	2.6	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. <i>New Journal of Physics</i> , 2015, 17, 095001.	1.2	20
16	The evolution of the topology of high-voltage electricity networks. <i>International Journal of Critical Infrastructures</i> , 2009, 5, 72.	0.1	19
17	Stochastic Modelling of the Effects of Interdependencies between Critical Infrastructure. <i>Lecture Notes in Computer Science</i> , 2010, , 201-212.	1.0	16
18	A versatile adaptive aggregation framework for spatially large discrete location-allocation problems. <i>Computers and Industrial Engineering</i> , 2017, 111, 364-380.	3.4	15

#	ARTICLE	IF	CITATIONS
19	Decelerated spreading in degree-correlated networks. <i>Physical Review E</i> , 2012, 85, 015101.	0.8	14
20	An Approximation Algorithm for the Facility Location Problem with Lexicographic Minimax Objective. <i>Journal of Applied Mathematics</i> , 2014, 2014, 1-12.	0.4	13
21	Controlling congestion on complex networks: fairness, efficiency and network structure. <i>Scientific Reports</i> , 2017, 7, 9152.	1.6	13
22	Proportionally Fairer Public Service Systems Design. <i>Communications - Scientific Letters of the University of Zilina</i> , 2013, 15, 14-18.	0.3	13
23	Analysis of Energy Consumption at Slow Charging Infrastructure for Electric Vehicles. <i>IEEE Access</i> , 2021, 9, 53885-53901.	2.6	11
24	Pedestrian Dynamics and Evacuation. , 2005, , 85-104.		10
25	Fair sharing of resources in a supply network with constraints. <i>Physical Review E</i> , 2012, 85, 046101.	0.8	9
26	Preprocessing of GIS data for electric vehicle charging stations analysis and evaluation of the predictors significance. <i>Transportation Research Procedia</i> , 2019, 40, 1583-1590.	0.8	9
27	A Feasibility Study of Privacy Ensuring Emergency Vehicle Approaching Warning System. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 298.	1.3	8
28	The Effects of Vehicle-to-Infrastructure Communication Reliability on Performance of Signalized Intersection Traffic Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 15450-15461.	4.7	8
29	Optimized Design of Large-Scale Social Welfare Supporting Systems on Complex Networks. <i>Springer Optimization and Its Applications</i> , 2012, , 337-361.	0.6	6
30	Large-scale test data set for location problems. <i>Data in Brief</i> , 2018, 17, 267-274.	0.5	5
31	On the Modelling of Emergency Ambulance Trips: The Case of the &Auml;zilina Region in Slovakia. <i>Mathematics</i> , 2021, 9, 2165.	1.1	5
32	Effects of demand estimates on the evaluation and optimality of service centre locations. <i>International Journal of Geographical Information Science</i> , 2016, 30, 765-784.	2.2	3
33	Use Cases and Introductory Analysis of the Dataset Collected Within the Large Network of Public Charging Stations. <i>Lecture Notes in Networks and Systems</i> , 2019, , 203-213.	0.5	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. <i>Operations Research Proceedings: Papers of the Annual Meeting = Vortr&amp;Auml;ge Der Jahrestagung / DGOR</i> , 2016, , 71-76.	0.1	1
36	Re-Aggregation Heuristics for the Large Location Problems with Lexicographic Minimax Objective. <i>Communications - Scientific Letters of the University of Zilina</i> , 2015, 17, 4-10.	0.3	1

#	ARTICLE	IF	CITATIONS
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.	0.2	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 = Vorträge 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.	1.6	0