

Marta C Gonzalez

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9578773/marta-c-gonzalez-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

10,760
citations

40
h-index

103
g-index

103
ext. papers

12,535
ext. citations

7.6
avg, IF

6.71
L-index

#	Paper	IF	Citations
98	Understanding individual human mobility patterns. <i>Nature</i> , 2008 , 453, 779-82	50.4	3903
97	A universal model for mobility and migration patterns. <i>Nature</i> , 2012 , 484, 96-100	50.4	760
96	Uncovering individual and collective human dynamics from mobile phone records. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 224015	2	373
95	Understanding the spreading patterns of mobile phone viruses. <i>Science</i> , 2009 , 324, 1071-6	33.3	353
94	Origin-Destination trips by purpose and time of day inferred from mobile phone data. <i>Transportation Research Part C: Emerging Technologies</i> , 2015 , 58, 240-250	8.4	340
93	Unravelling daily human mobility motifs. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130246	4.1	292
92	Development of origin-destination matrices using mobile phone call data. <i>Transportation Research Part C: Emerging Technologies</i> , 2014 , 40, 63-74	8.4	290
91	The path most traveled: Travel demand estimation using big data resources. <i>Transportation Research Part C: Emerging Technologies</i> , 2015 , 58, 162-177	8.4	236
90	Understanding road usage patterns in urban areas. <i>Scientific Reports</i> , 2012 , 2, 1001	4.9	213
89	Safe Driving Using Mobile Phones. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012 , 13, 1466-1468	2.12	212
88	. <i>IEEE Transactions on Big Data</i> , 2017 , 3, 208-219	3.2	204
87	Geographic constraints on social network groups. <i>PLoS ONE</i> , 2011 , 6, e16939	3.7	199
86	On the use of human mobility proxies for modeling epidemics. <i>PLoS Computational Biology</i> , 2014 , 10, e1003716	5	184
85	Understanding congested travel in urban areas. <i>Nature Communications</i> , 2016 , 7, 10793	17.4	163
84	Spatiotemporal Patterns of Urban Human Mobility. <i>Journal of Statistical Physics</i> , 2013 , 151, 304-318	1.5	162
83	Clustering daily patterns of human activities in the city. <i>Data Mining and Knowledge Discovery</i> , 2012 , 25, 478-510	5.6	150
82	Discovering urban activity patterns in cell phone data. <i>Transportation</i> , 2015 , 42, 597-623	4	136

81	Inferring land use from mobile phone activity 2012 ,		125
80	Cycles and clustering in bipartite networks. <i>Physical Review E</i> , 2005 , 72, 056127	2.4	122
79	A review of urban computing for mobile phone traces 2013 ,		111
78	Community energy storage: A smart choice for the smart grid?. <i>Applied Energy</i> , 2018 , 212, 489-497	10.7	108
77	Modeling the adoption of innovations in the presence of geographic and media influences. <i>PLoS ONE</i> , 2012 , 7, e29528	3.7	105
76	The TimeGeo modeling framework for urban motility without travel surveys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5370-8	11.5	101
75	Coupling human mobility and social ties. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	99
74	Analyzing Cell Phone Location Data for Urban Travel: Current Methods, Limitations, and Opportunities. <i>Transportation Research Record</i> , 2015 , 2526, 126-135	1.7	97
73	System of mobile agents to model social networks. <i>Physical Review Letters</i> , 2006 , 96, 088702	7.4	94
72	OPINION FORMATION ON A DETERMINISTIC PSEUDO-FRACTAL NETWORK. <i>International Journal of Modern Physics C</i> , 2004 , 15, 45-57	1.1	94
71	Predicting commuter flows in spatial networks using a radiation model based on temporal ranges. <i>Nature Communications</i> , 2014 , 5, 5347	17.4	84
70	Community structure and ethnic preferences in school friendship networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 379, 307-316	3.3	74
69	Using Convolutional Networks and Satellite Imagery to Identify Patterns in Urban Environments at a Large Scale 2017 ,		64
68	Understanding individual routing behaviour. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	59
67	Understanding predictability and exploration in human mobility. <i>EPJ Data Science</i> , 2018 , 7,	3.4	59
66	Tracking employment shocks using mobile phone data. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	53
65	Planning for electric vehicle needs by coupling charging profiles with urban mobility. <i>Nature Energy</i> , 2018 , 3, 484-493	62.3	51
64	Urban magnetism through the lens of geo-tagged photography. <i>EPJ Data Science</i> , 2015 , 4,	3.4	51

63	A metric of influential spreading during contagion dynamics through the air transportation network. <i>PLoS ONE</i> , 2012 , 7, e40961	3.7	51
62	Limits of predictability in commuting flows in the absence of data for calibration. <i>Scientific Reports</i> , 2014 , 4, 5662	4.9	48
61	Discovering urban spatial-temporal structure from human activity patterns 2012 ,		47
60	Scaling of the propagation of epidemics in a system of mobile agents. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 340, 741-748	3.3	45
59	From data to models. <i>Nature Physics</i> , 2007 , 3, 224-225	16.2	41
58	Projecting battery adoption in the prosumer era. <i>Applied Energy</i> , 2018 , 215, 356-370	10.7	40
57	Data-driven modeling of solar-powered urban microgrids. <i>Science Advances</i> , 2016 , 2, e1500700	14.3	37
56	Hand-Hygiene Mitigation Strategies Against Global Disease Spreading through the Air Transportation Network. <i>Risk Analysis</i> , 2020 , 40, 723-740	3.9	36
55	Different topologies for a herding model of opinion. <i>Physical Review E</i> , 2007 , 75, 066108	2.4	35
54	Planning for sustainable cities by estimating building occupancy with mobile phones. <i>Nature Communications</i> , 2019 , 10, 3736	17.4	34
53	Personalized routing for multitudes in smart cities. <i>EPJ Data Science</i> , 2015 , 4,	3.4	33
52	A simple contagion process describes spreading of traffic jams in urban networks. <i>Nature Communications</i> , 2020 , 11, 1616	17.4	28
51	Sequences of purchases in credit card data reveal lifestyles in urban populations. <i>Nature Communications</i> , 2018 , 9, 3330	17.4	28
50	Enhanced Situational Awareness: Application of DDDAS Concepts to Emergency and Disaster Management. <i>Lecture Notes in Computer Science</i> , 2007 , 1090-1097	0.9	27
49	Networks based on collisions among mobile agents. <i>Physica D: Nonlinear Phenomena</i> , 2006 , 224, 137-148	3.3	26
48	Unraveling environmental justice in ambient PM2.5 exposure in Beijing: A big data approach. <i>Computers, Environment and Urban Systems</i> , 2019 , 75, 12-21	5.9	26
47	The anatomy of urban social networks and its implications in the searchability problem. <i>Scientific Reports</i> , 2015 , 5, 10265	4.9	25
46	Modelling the propagation of social response during a disease outbreak. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20141105	4.1	25

45	Collective benefits in traffic during mega events via the use of information technologies. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	22
44	Data analytics for simplifying thermal efficiency planning in cities. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	22
43	Macroscopic dynamics and the collapse of urban traffic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12654-12661	11.5	22
42	Estimating MFDs, trip lengths and path flow distributions in a multi-region setting using mobile phone data. <i>Transportation Research Part C: Emerging Technologies</i> , 2020 , 118, 102709	8.4	21
41	Understanding spatial connectivity of individuals with non-uniform population density. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 3321-9	3	20
40	Renormalizing Sznajd model on complex networks taking into account the effects of growth mechanisms. <i>European Physical Journal B</i> , 2006 , 49, 253-257	1.2	19
39	Demand and Congestion in Multiplex Transportation Networks. <i>PLoS ONE</i> , 2016 , 11, e0161738	3.7	19
38	The eigenmode analysis of human motion. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P11021	1.9	18
37	A data science framework for planning the growth of bicycle infrastructures. <i>Transportation Research Part C: Emerging Technologies</i> , 2020 , 115, 102640	8.4	15
36	Model of mobile agents for sexual interactions networks. <i>European Physical Journal B</i> , 2006 , 49, 371-376	1.2	15
35	Modeling and Understanding Intrinsic Characteristics of Human Mobility 2015 , 15-35		14
34	Deconstructing laws of accessibility and facility distribution in cities. <i>Science Advances</i> , 2020 , 6,	14.3	14
33	Understanding the spread of malicious mobile-phone programs and their damage potential. <i>International Journal of Information Security</i> , 2013 , 12, 383-392	2.8	12
32	On the role of spatial dynamics and topology on network flows. <i>New Journal of Physics</i> , 2013 , 15, 113037	2.9	12
31	Daily travel behavior 2013 ,		10
30	Socio-economic, built environment, and mobility conditions associated with crime: a study of multiple cities. <i>Scientific Reports</i> , 2020 , 10, 13871	4.9	10
29	Cluster size distribution of infection in a system of mobile agents. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 356, 100-106	3.3	9
28	Cost-Effective Control of Infectious Disease Outbreaks Accounting for Societal Reaction. <i>PLoS ONE</i> , 2015 , 10, e0136059	3.7	9

27	Empirical study of long-range connections in a road network offers new ingredient for navigation optimization models. <i>New Journal of Physics</i> , 2014 , 16, 013012	2.9	8
26	The role of geography in the complex diffusion of innovations. <i>Scientific Reports</i> , 2020 , 10, 15065	4.9	8
25	Modeling Urbanization Patterns with Generative Adversarial Networks 2018 ,		8
24	Uncovering Urban Temporal Patterns from Geo-Tagged Photography. <i>PLoS ONE</i> , 2016 , 11, e0165753	3.7	7
23	Potential of Low-Frequency Automated Vehicle Location Data for Monitoring and Control of Bus Performance. <i>Transportation Research Record</i> , 2013 , 2351, 54-64	1.7	6
22	How Does the Electricity Demand Profile Impact the Attractiveness of PV-Coupled Battery Systems Combining Applications?. <i>Energies</i> , 2020 , 13, 4038	3.1	6
21	Enhancing household-level load forecasts using daily load profile clustering 2018 ,		6
20	Age density patterns in patients medical conditions: A clustering approach. <i>PLoS Computational Biology</i> , 2018 , 14, e1006115	5	6
19	Coupling Natural Hazard Estimates with Road Network Analysis to Assess Vulnerability and Risk: Case Study of Freetown (Sierra Leone). <i>Transportation Research Record</i> , 2019 , 2673, 11-24	1.7	5
18	Multi-Microgrids Load Balancing through EV Charging Networks. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	5
17	The elliptic model for communication fluxes. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P04022	1.9	3
16	Quantifying the Resilience of the U.S. Domestic Aviation Network During the COVID-19 Pandemic. <i>Frontiers in Built Environment</i> , 2021 , 7,	2.2	3
15	Role of persistent cascades in diffusion. <i>Physical Review E</i> , 2019 , 99, 012323	2.4	2
14	Hand-hygiene mitigation strategies against global disease spreading through the air transportation network		2
13	Correlation networks of air particulate matter (PM _{2.5}): a comparative study. <i>Applied Network Science</i> , 2021 , 6, 32	2.9	2
12	Persistent cascades: Measuring fundamental communication structure in social networks 2016 ,		2
11	Streetify: Using Street View Imagery And Deep Learning For Urban Streets Development 2019 ,		2
10	Understanding vehicular routing behavior with location-based service data. <i>EPJ Data Science</i> , 2021 , 10,	3.4	2

9	Big Data Fusion to Estimate Urban Fuel Consumption: A Case Study of Riyadh. <i>Transportation Research Record</i> , 2018 , 2672, 49-59	1.7	2
8	A sustainable strategy for Open Streets in (post)pandemic cities. <i>Communications Physics</i> , 2021 , 4,	5.4	2
7	Cities as complex systems-Collection overview.. <i>PLoS ONE</i> , 2022 , 17, e0262964	3.7	2
6	Flow equations on a fractal structure. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 298, 297-314	3.4	1
5	The promise and perils of big gender data. <i>Nature Medicine</i> , 2020 , 26, 17-18	50.5	1
4	Urban attractors: Discovering patterns in regions of attraction in cities. <i>PLoS ONE</i> , 2021 , 16, e0250204	3.7	1
3	Mobile phone location data for disasters: A review from natural hazards and epidemics. <i>Computers, Environment and Urban Systems</i> , 2022 , 94, 101777	5.9	0
2	Modeling and Understanding Intrinsic Characteristics of Human Mobility 2018 , 13-34		
1	Characterizing Urban Mobility Patterns: A Case Study of Mexico City. <i>Urban Book Series</i> , 2021 , 153-170	0.3	