

Thomas J Cova

List of Publications by Citations

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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.

36
papers

1,784
citations

21
h-index

39
g-index

39
ext. papers

2,059
ext. citations

3.6
avg, IF

4.9
L-index

#	Paper	IF	Citations
36	Towards a general theory of geographic representation in GIS. <i>International Journal of Geographical Information Science</i> , 2007 , 21, 239-260	4.1	303
35	A network flow model for lane-based evacuation routing. <i>Transportation Research, Part A: Policy and Practice</i> , 2003 , 37, 579-604	3.7	214
34	Microsimulation of Neighborhood Evacuations in the Urban-Wildland Interface. <i>Environment and Planning A</i> , 2002 , 34, 2211-2229	2.7	142
33	Modelling community evacuation vulnerability using GIS. <i>International Journal of Geographical Information Science</i> , 1997 , 11, 763-784	4.1	140
32	Extending geographical representation to include fields of spatial objects. <i>International Journal of Geographical Information Science</i> , 2002 , 16, 509-532	4.1	137
31	Mapping evacuation risk on transportation networks using a spatial optimization model. <i>Transportation Research Part C: Emerging Technologies</i> , 2000 , 8, 321-336	8.4	82
30	Contiguity Constraints for Single-Region Site Search Problems. <i>Geographical Analysis</i> , 2010 , 32, 306-329	2.9	77
29	Protective Actions in Wildfires: Evacuate or Shelter-in-Place?. <i>Natural Hazards Review</i> , 2009 , 10, 151-162	3.5	63
28	Mapping Exurbia in the Conterminous United States Using Nighttime Satellite Imagery. <i>Geocarto International</i> , 2006 , 21, 39-45	2.7	59
27	Setting Wildfire Evacuation Trigger Points Using Fire Spread Modeling and GIS. <i>Transactions in GIS</i> , 2005 , 9, 603-617	2.1	58
26	Public Safety in the Urban-Wildland Interface: Should Fire-Prone Communities Have a Maximum Occupancy?. <i>Natural Hazards Review</i> , 2005 , 6, 99-108	3.5	49
25	Mapping wildfire evacuation vulnerability in the western US: the limits of infrastructure. <i>Geo Journal</i> , 2013 , 78, 273-285	2.2	43
24	Spatial and temporal variation in evacuee risk perception throughout the evacuation and return-entry process. <i>Risk Analysis</i> , 2012 , 32, 1468-80	3.9	41
23	Modeling Evacuate versus Shelter-in-Place Decisions in Wildfires. <i>Sustainability</i> , 2011 , 3, 1662-1687	3.6	38
22	WUIVAC: a wildland-urban interface evacuation trigger model applied in strategic wildfire scenarios. <i>Natural Hazards</i> , 2007 , 41, 181-199	3	38
21	EDGIS: a dynamic GIS based on space time points. <i>International Journal of Geographical Information Science</i> , 2010 , 24, 329-346	4.1	37
20	Dynamic GIS Case Studies: Wildfire Evacuation and Volunteered Geographic Information. <i>Transactions in GIS</i> , 2009 , 13, 85-104	2.1	37

19	Exurban Change Detection in Fire-Prone Areas with Nighttime Satellite Imagery. <i>Photogrammetric Engineering and Remote Sensing</i> , 2004 , 70, 1249-1257	1.6	32
18	A household-level approach to staging wildfire evacuation warnings using trigger modeling. <i>Computers, Environment and Urban Systems</i> , 2015 , 54, 56-67	5.9	29
17	Warning Triggers in Environmental Hazards: Who Should Be Warned to Do What and When?. <i>Risk Analysis</i> , 2017 , 37, 601-611	3.9	26
16	Wildland firefighter entrapment avoidance: modelling evacuation triggers. <i>International Journal of Wildland Fire</i> , 2013 , 22, 883	3.2	23
15	Setting Wildfire Evacuation Triggers by Coupling Fire and Traffic Simulation Models: A Spatiotemporal GIS Approach. <i>Fire Technology</i> , 2019 , 55, 617-642	3	20
14	Evaluating dynamic wildfire evacuation trigger buffers using the 2003 Cedar Fire. <i>Applied Geography</i> , 2011 , 31, 12-19	4.4	18
13	Exploratory Map Animation for Post-Event Analysis of Wildfire Protective Action Recommendations. <i>Natural Hazards Review</i> , 2006 , 7, 1-11	3.5	18
12	Identification of firefighter safety zones using lidar. <i>Environmental Modelling and Software</i> , 2014 , 59, 91-97	5.2	13
11	Environmental factors that influence wildfire protective-action recommendations. <i>International Journal of Emergency Management</i> , 2014 , 10, 153	0.5	11
10	Risk Communication after Disaster: Return Entry Following the 2008 Cedar River Flood. <i>Natural Hazards Review</i> , 2014 , 15, 158-166	3.5	9
9	Using MODIS satellite imagery to predict hantavirus risk. <i>Global Ecology and Biogeography</i> , 2011 , 20, 620-629	6.1	8
8	Using reverse geocoding to identify prominent wildfire evacuation trigger points. <i>Applied Geography</i> , 2017 , 87, 14-27	4.4	6
7	Why do we need a national address point database to improve wildfire public safety in the U.S.?. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 39, 101237	4.5	5
6	An open-source software system for setting wildfire evacuation triggers 2015 ,		3
5	Toward Simulating Dire Wildfire Scenarios. <i>Natural Hazards Review</i> , 2021 , 22,	3.5	2
4	Using GIS to Understand the Influence of Hurricane Harvey on Spatial Access to Primary Care. <i>Risk Analysis</i> , 2021 ,	3.9	2
3	Estimating wildfire evacuation decision and departure timing using large-scale GPS data. <i>Transportation Research, Part D: Transport and Environment</i> , 2022 , 107, 103277	6.4	1
2	Data Model, F-Objects and O-Fields 2017 , 1-5		

1 Evacuation **2019**, 1-8