

Filippo Catani

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

6,541
citations

71061

41
h-index

66879

78
g-index

122
all docs

122
docs citations

122
times ranked

4654
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface temperature controls the pattern of post-earthquake landslide activity. Scientific Reports, 2022, 12, 988.	1.6	24
2	Exploring a landslide inventory created by automated web data mining: the case of Italy. Landslides, 2022, 19, 841-853.	2.7	23
3	Improving Landslide Detection on SAR Data Through Deep Learning. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	16
4	Pinpointing Early Signs of Impending Slope Failures From Space. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	4
5	Towards a National-Scale Dataset of Geotechnical and Hydrological Soil Parameters for Shallow Landslide Modeling. Data, 2022, 7, 37.	1.2	4
6	Rapid Mapping of Landslides on SAR Data by Attention U-Net. Remote Sensing, 2022, 14, 1449.	1.8	34
7	Enhanced dynamic landslide hazard mapping using MT-InSAR method in the Three Gorges Reservoir Area. Landslides, 2022, 19, 1585-1597.	2.7	40
8	A methodological approach of QRA for slow-moving landslides at a regional scale. Landslides, 2022, 19, 1539-1561.	2.7	9
9	Characteristic comparison of seepage-driven and buoyancy-driven landslides in Three Gorges Reservoir area, China. Engineering Geology, 2022, 301, 106590.	2.9	34
10	Assessing the importance of conditioning factor selection in landslide susceptibility for the province of Belluno (region of Veneto, northeastern Italy). Natural Hazards and Earth System Sciences, 2022, 22, 1395-1417.	1.5	15
11	Rapidly Evolving Controls of Landslides After a Strong Earthquake and Implications for Hazard Assessments. Geophysical Research Letters, 2021, 48, .	1.5	61
12	Effect of antecedent rainfall conditions and their variations on shallow landslide-triggering rainfall thresholds in South Korea. Landslides, 2021, 18, 569-582.	2.7	47
13	Landslide detection by deep learning of non-nadir and crowdsourced optical images. Landslides, 2021, 18, 1025-1044.	2.7	52
14	Prediction and Forecasting of Mass-Movements. , 2021, , .		3
15	Integration of Satellite Interferometric Data in Civil Protection Strategies for Landslide Studies at a Regional Scale. Remote Sensing, 2021, 13, 1881.	1.8	9
16	Ten years of pluviometric analyses in Italy for civil protection purposes. Scientific Reports, 2021, 11, 20302.	1.6	2
17	Damming Predisposition of River Networks: A Mapping Methodology. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 127-132.	0.3	0
18	Sentinel-1 PSI Data for the Evaluation of Landslide Geohazard and Impact. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 447-455.	0.3	0

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19	Characterization of Hillslope Deposits for Physically-Based Landslide Forecasting Models. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 265-272.	0.3	0
20	Advanced Technologies for Landslides (WCoE 2017-2020). ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 259-265.	0.3	0
21	Landslide susceptibility assessment in complex geological settings: sensitivity to geological information and insights on its parameterization. Landslides, 2020, 17, 2443-2453.	2.7	81
22	Satellite interferometric data for landslide intensity evaluation in mountainous regions. International Journal of Applied Earth Observation and Geoinformation, 2020, 87, 102028.	1.4	40
23	Landslide Characterization Applying Sentinel-1 Images and InSAR Technique: The Muyubao Landslide in the Three Gorges Reservoir Area, China. Remote Sensing, 2020, 12, 3385.	1.8	62
24	Integration of Remotely Sensed Soil Sealing Data in Landslide Susceptibility Mapping. Remote Sensing, 2020, 12, 1486.	1.8	23
25	Different Approaches to Use Morphometric Attributes in Landslide Susceptibility Mapping Based on Meso-Scale Spatial Units: A Case Study in Rio de Janeiro (Brazil). Remote Sensing, 2020, 12, 1826.	1.8	26
26	Analysis of Landslide Movements Using Interferometric Synthetic Aperture Radar: A Case Study in Hunza-Nagar Valley, Pakistan. Remote Sensing, 2020, 12, 2054.	1.8	28
27	A spatially explicit database of wind disturbances in European forests over the period 2000-2018. Earth System Science Data, 2020, 12, 257-276.	3.7	52
28	EGU 2019 Sergey Soloviev Medal Lecture. Landslides, 2019, 16, 1613-1617.	2.7	0
29	Landslides in the Mountain Region of Rio de Janeiro: A Proposal for the Semi-Automated Definition of Multiple Rainfall Thresholds. Geosciences (Switzerland), 2019, 9, 203.	1.0	40
30	Fusion of GNSS and Satellite Radar Interferometry: Determination of 3D Fine-Scale Map of Present-Day Surface Displacements in Italy as Expressions of Geodynamic Processes. Remote Sensing, 2019, 11, 394.	1.8	14
31	Landslide susceptibility modeling applying machine learning methods: A case study from Longju in the Three Gorges Reservoir area, China. Computers and Geosciences, 2018, 112, 23-37.	2.0	262
32	Augmented Virtuality for Coastal Management: A Holistic Use of In Situ and Remote Sensing for Large Scale Definition of Coastal Dynamics. ISPRS International Journal of Geo-Information, 2018, 7, 92.	1.4	14
33	Combination of Rainfall Thresholds and Susceptibility Maps for Dynamic Landslide Hazard Assessment at Regional Scale. Frontiers in Earth Science, 2018, 6, .	0.8	75
34	Application of a physically based model to forecast shallow landslides at a regional scale. Natural Hazards and Earth System Sciences, 2018, 18, 1919-1935.	1.5	78
35	Displacement prediction of step-like landslide by applying a novel kernel extreme learning machine method. Landslides, 2018, 15, 2211-2225.	2.7	123
36	A Tool for Classification and Regression Using Random Forest Methodology: Applications to Landslide Susceptibility Mapping and Soil Thickness Modeling. Environmental Modeling and Assessment, 2017, 22, 201-214.	1.2	64

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37	Validation of landslide hazard models using a semantic engine on online news. <i>Applied Geography</i> , 2017, 82, 59-65.	1.7	28
38	Landslide prediction, monitoring and early warning: a concise review of state-of-the-art. <i>Geosciences Journal</i> , 2017, 21, 1033-1070.	0.6	245
39	Definition of a Fully Functional EWS Based on Rainfall Thresholds, the Case of Study of Tuscany Region. , 2017, , 169-174.		4
40	Advanced Technologies for Landslides (WCoE 2014â€“2017, IPL-196, IPL-198). , 2017, , 269-277.		0
41	How to Improve the Accuracy of Landslide Susceptibility Maps Using PSInSAR Data. , 2017, , 965-971.		1
42	Soil Characterization for Landslide Forecasting Models: A Case Study in the Northern Apennines (Central Italy). , 2017, , 381-388.		0
43	Geomorphic indexing of landslide dams evolution. <i>Engineering Geology</i> , 2016, 208, 1-10.	2.9	103
44	Subsidence mapping at regional scale using persistent scatters interferometry (PSI): The case of Tuscany region (Italy). <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 52, 328-337.	1.4	44
45	Spatial patterns of landslide dimension: A tool for magnitude mapping. <i>Geomorphology</i> , 2016, 273, 361-373.	1.1	29
46	Landslide susceptibility map refinement using PSInSAR data. <i>Remote Sensing of Environment</i> , 2016, 184, 302-315.	4.6	93
47	Geomorphological investigations on landslide dams. <i>Geoenvironmental Disasters</i> , 2015, 2, .	1.8	52
48	Technical Note: An operational landslide early warning system at regional scale based on spaceâ€“time-variable rainfall thresholds. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 853-861.	1.5	80
49	Quantitative comparison between two different methodologies to define rainfall thresholds for landslide forecasting. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 2413-2423.	1.5	55
50	Risk analysis for the Ancona landslideâ€“I: characterization of landslide kinematics. <i>Landslides</i> , 2015, 12, 69-82.	2.7	20
51	Risk analysis for the Ancona landslideâ€“II: estimation of risk to buildings. <i>Landslides</i> , 2015, 12, 83-100.	2.7	49
52	A Cost Effective Methodology for the Rapid Evaluation of the Flood Susceptibility Along Anthropized Rivers. , 2015, , 849-852.		1
53	Recommendations for the quantitative analysis of landslide risk. <i>Bulletin of Engineering Geology and the Environment</i> , 2014, 73, 209.	1.6	541
54	Analysing the relationship between rainfalls and landslides to define a mosaic of triggering thresholds for regional-scale warning systems. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 2637-2648.	1.5	98

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55	Landslides triggered by rainfall: A semi-automated procedure to define consistent intensityâ€‘duration thresholds. <i>Computers and Geosciences</i> , 2014, 63, 123-131.	2.0	114
56	Quantitative hazard and risk assessment for slow-moving landslides from Persistent Scatterer Interferometry. <i>Landslides</i> , 2014, 11, 685-696.	2.7	94
57	Rapid assessment of flood susceptibility in urbanized rivers using digital terrain data: Application to the Arno river case study (Firenze, northern Italy). <i>Applied Geography</i> , 2014, 54, 35-53.	1.7	32
58	The Use of Radar Interferometry in Landslide Monitoring. <i>Environmental Science and Engineering</i> , 2014, , 177-190.	0.1	3
59	Persistent Scatterer Interferometry (PSI) Technique for Landslide Characterization and Monitoring. , 2014, , 351-357.		8
60	Regional Scale Landslide Susceptibility Mapping in Emilia Romagna (Italy) as a Tool for Early Warning. , 2014, , 443-449.		1
61	Mapping natural and urban environments using airborne multi-sensor ADS40â€‘MIVISâ€‘LiDAR synergies. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2013, 23, 313-323.	1.4	28
62	Web data mining for automatic inventory of geohazards at national scale. <i>Applied Geography</i> , 2013, 43, 147-158.	1.7	48
63	Updating and tuning a regional-scale landslide early warning system. <i>Landslides</i> , 2013, 10, 91-97.	2.7	80
64	Detecting fingerprints of landslide drivers: A MaxEnt model. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1367-1386.	1.0	63
65	GIS techniques for regional-scale landslide susceptibility assessment: the Sicily (Italy) case study. <i>International Journal of Geographical Information Science</i> , 2013, 27, 1433-1452.	2.2	56
66	Brief communication "A prototype forecasting chain for rainfall induced shallow landslides". <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 771-777.	1.5	47
67	Persistent Scatterer Interferometry (PSI) Technique for Landslide Characterization and Monitoring. <i>Remote Sensing</i> , 2013, 5, 1045-1065.	1.8	233
68	HIRESSES: a physically based slope stability simulator for HPC applications. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 151-166.	1.5	124
69	Technical Note: Use of remote sensing for landslide studies in Europe. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 299-309.	1.5	115
70	Landslide susceptibility estimation by random forests technique: sensitivity and scaling issues. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 2815-2831.	1.5	444
71	Snow accumulation/melting model (SAMM) for integrated use in regional scale landslide early warning systems. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1229-1240.	1.9	29
72	Different Methods to Produce Distributed Soil Thickness Maps and Their Impact on the Reliability of Shallow Landslide Modeling at Catchment Scale. , 2013, , 127-133.		2

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73	Landslide Susceptibility Mapping at National Scale: The Italian Case Study. , 2013, , 287-295.		48
74	Application of GIS Techniques for Landslide Susceptibility Assessment at Regional Scale. , 2013, , 459-465.		2
75	Short Term Weather Forecasting for Shallow Landslide Prediction. , 2013, , 121-129.		2
76	Persistent Scatterers Interferometry Hotspot and Cluster Analysis (PSI-HCA) for detection of extremely slow-moving landslides. International Journal of Remote Sensing, 2012, 33, 466-489.	1.3	125
77	Rainfall thresholds for the forecasting of landslide occurrence at regional scale. Landslides, 2012, 9, 485-495.	2.7	223
78	Urban planning, flood risk and public policy: The case of the Arno River, Firenze, Italy. Applied Geography, 2012, 34, 205-218.	1.7	42
79	Assessment of hyperspectral MIVIS sensor capability for heterogeneous landscape classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2012, 74, 175-184.	4.9	12
80	ES4LUCC: A GIS-tool for remotely monitoring landscape dynamics. Computers and Geosciences, 2012, 49, 72-80.	2.0	5
81	Statistical and environmental analyses for the definition of a regional rainfall threshold system for landslide triggering in Tuscany (Italy). Journal of Chinese Geography, 2012, 22, 617-629.	1.5	81
82	Improving basin scale shallow landslide modelling using reliable soil thickness maps. Natural Hazards, 2012, 61, 85-101.	1.6	59
83	Scale-dependent relations in land cover biophysical dynamics. Ecological Modelling, 2011, 222, 3285-3290.	1.2	9
84	Monitoring, prediction, and early warning using ground-based radar interferometry. Landslides, 2010, 7, 291-301.	2.7	305
85	An empirical geomorphology-based approach to the spatial prediction of soil thickness at catchment scale. Water Resources Research, 2010, 46, .	1.7	126
86	PSI-HSR: a new approach for representing Persistent Scatterer Interferometry (PSI) point targets using the hue and saturation scale. International Journal of Remote Sensing, 2010, 31, 2189-2196.	1.3	13
87	DInSAR analysis of differential ground subsidence affecting urban areas along the Mexican Volcanic Belt (MVB). European Journal of Remote Sensing, 2008, , 103-113.	0.2	5
88	Deformation pattern in the underthrust carbonate-rich sequence of the Sibillini Thrust (central) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 53-69.	2.2	4
89	Integration of Remote Sensing Techniques in Different Stages of Landslide Response. , 2007, , 251-260.		19
90	Landslide hazard and risk mapping at catchment scale in the Arno River basin. Landslides, 2005, 2, 329-342.	2.7	235

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91	On the application of SAR interferometry to geomorphological studies: estimation of landform attributes and mass movements. <i>Geomorphology</i> , 2005, 66, 119-131.	1.1	112
92	Artificial Neural Networks applied to landslide susceptibility assessment. <i>Geomorphology</i> , 2005, 66, 327-343.	1.1	458
93	An Inventory-Based Approach to Landslide Susceptibility Assessment and its Application to the Virginio River Basin, Italy. <i>Environmental and Engineering Geoscience</i> , 2004, 10, 203-216.	0.3	33
94	Modeling of the Guagua Pichincha volcano (Ecuador) lahars. <i>Physics and Chemistry of the Earth</i> , 2002, 27, 1587-1599.	1.2	30
95	Statistical analysis of drainage density from digital terrain data. <i>Geomorphology</i> , 2001, 36, 187-202.	1.1	204
96	Hydrogeological hazard and risk in archaeological sites: some case studies in Italy. <i>Journal of Cultural Heritage</i> , 2000, 1, 117-125.	1.5	43
97	PSI technique for quantitative hazard and risk assessment of landslides. <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 35, 296-299.	0.3	0