Miguel Ãngel Manso-Callejo

List of Publications by Year
in descending order

43 papers	489 citations	840776 11 h-index	713466 21 g-index
44 all docs	44 docs citations	44 times ranked	585 citing authors

#	Article	IF	Citations
1	Improving Road Surface Area Extraction via Semantic Segmentation with Conditional Generative Learning for Deep Inpainting Operations. ISPRS International Journal of Geo-Information, 2022, 11, 43.	2.9	10
2	Dataset containing orthoimages tagged with road information covering approximately 8650Âkm2 of the Spanish territory (SROADEX). Data in Brief, 2022, 42, 108316.	1.0	2
3	Review on Spatio-Temporal Solar Forecasting Methods Driven by In Situ Measurements or Their Combination with Satellite and Numerical Weather Prediction (NWP) Estimates. Energies, 2022, 15, 4341.	3.1	11
4	First Dataset of Wind Turbine Data Created at National Level With Deep Learning Techniques From Aerial Orthophotographs With a Spatial Resolution of 0.5 M/Pixel. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 7968-7980.	4.9	7
5	Generative Learning for Postprocessing Semantic Segmentation Predictions: A Lightweight Conditional Generative Adversarial Network Based on Pix2pix to Improve the Extraction of Road Surface Areas. Land, 2021, 10, 79.	2.9	14
6	Optimizing the Recognition and Feature Extraction of Wind Turbines through Hybrid Semantic Segmentation Architectures. Remote Sensing, 2020, 12, 3743.	4.0	9
7	A Deep Learning-Based Solution for Large-Scale Extraction of the Secondary Road Network from High-Resolution Aerial Orthoimagery. Applied Sciences (Switzerland), 2020, 10, 7272.	2.5	17
8	Methodological Approach to Incorporate the Involve of Stakeholders in the Geodesign Workflow of Transmission Line Projects. ISPRS International Journal of Geo-Information, 2020, 9, 178.	2.9	1
9	A Framework Based on Nesting of Convolutional Neural Networks to Classify Secondary Roads in High Resolution Aerial Orthoimages. Remote Sensing, 2020, 12, 765.	4.0	17
10	Grammar Guided Genetic Programming for Network Architecture Search and Road Detection on Aerial Orthophotography. Applied Sciences (Switzerland), 2020, 10, 3953.	2.5	5
11	Modelización y predicción espacio-tiempo de la irradiancia solar global a corto plazo mediante redes neuronales artificiales y geoestadÃstica. Revista CartogrÃ¡fica, 2020, , 13-40.	0.2	0
12	Modelización y predicción espacio-tiempo de la irradiancia solar global a corto plazo mediante redes neuronales artificiales y geoestadÃstica. Revista CartogrÃ¡fica, 2020, , 13-40.	0.2	0
13	A Survey of Modelling Trends in Temporal GIS. ACM Computing Surveys, 2019, 51, 1-41.	23.0	26
14	Lifecycle of Geospatial Data in a High-Voltage Electrical Infrastructure Project: Geodesign Framework in the Electrical Network of Spain (REE). Proceedings (mdpi), 2019, 19, .	0.2	0
15	Designing a Volunteered Geographic Information System for Road Data Validation. Proceedings (mdpi), 2019, 19, .	0.2	2
16	A Deep Convolutional Neural Network to Detect the Existence of Geospatial Elements in High-Resolution Aerial Imagery. Proceedings (mdpi), 2019, 19, .	0.2	3
17	Volunteered geographic information systems: Technological design patterns. Transactions in GIS, 2019, 23, 976-1007.	2.3	4
18	Indoor Occupancy Prediction using an IoT Platform. , 2019, , .		8

#	Article	IF	Citations
19	Needs, drivers, participants and engagement actions: a framework for motivating contributions to volunteered geographic information systems. Journal of Geographical Systems, 2019, 21, 5-41.	3.1	14
20	Evaluation of Transfer Learning Techniques with Convolutional Neural Networks (CNNs) to Detect the Existence of Roads in High-Resolution Aerial Imagery. Communications in Computer and Information Science, 2019, , 185-198.	0.5	1
21	A Methodological Approach to Using Geodesign in Transmission Line Projects. Sustainability, 2018, 10, 2757.	3.2	7
22	A Blockchain-Based Authorization System for Trustworthy Resource Monitoring and Trading in Smart Communities. Sensors, 2018, 18, 3561.	3.8	60
23	Using the Spatial Knowledge of Map Users to Personalize City Maps: A Case Study with Tourists in Madrid, Spain. ISPRS International Journal of Geo-Information, 2018, 7, 332.	2.9	10
24	Using Bivariate Gaussian Distribution Confidence Ellipses of Lightning Flashes for Efficiently Computing Reliable Large Area Density Maps. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4489-4499.	6.3	2
25	Volunteered Geographic Information System Design: Project and Participation Guidelines. ISPRS International Journal of Geo-Information, 2016, 5, 108.	2.9	21
26	Forecasting short-term solar irradiance based on artificial neural networks and data from neighboring meteorological stations. Solar Energy, 2016, 134, 119-131.	6.1	108
27	*Time*Bliography: A Dynamic and Online Bibliography on Temporal GIS. Transactions in GIS, 2014, 18, 799-816.	2.3	10
28	Spatial Estimation of Sub-Hour Global Horizontal Irradiance Based on Official Observations and Remote Sensors. Sensors, 2014, 14, 6758-6787.	3.8	14
29	A Mobile Crowdsourcing Platform for Urban Infrastructure Maintenance. , 2014, , .		7
30	Assessment of the availability of near-real time open weather data provided by networks of surface stations in Spain. Earth Science Informatics, 2013, 6, 145-163.	3.2	4
31	Point- and curve-based geometric conflation. International Journal of Geographical Information Science, 2013, 27, 192-207.	4.8	4
32	Automatic Metadata Generation for Geospatial Resource Discovery. , 2013, , 2176-2207.		0
33	Using 3D GeoDesign for Planning of New Electricity Networks in Spain. Lecture Notes in Computer Science, 2012, , 462-476.	1.3	1
34	Zone design of specific sizes using adaptive additively weighted Voronoi diagrams. International Journal of Geographical Information Science, 2012, 26, 1811-1829.	4.8	12
35	A mobility constraint model to infer sensor behaviour in forest fire risk monitoring. Computers, Environment and Urban Systems, 2012, 36, 81-95.	7.1	12
36	Automatic Metadata Generation for Geospatial Resource Discovery. , 2012, , 78-110.		0

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37	Integration of Temporal and Semantic Components into the Geographic Information through Mark-up Languages. Part I: Definition. Lecture Notes in Computer Science, 2011, , 394-409.	1.3	1
38	The Design of an Automated Workflow for Metadata Generation. Communications in Computer and Information Science, 2010, , 275-287.	0.5	5
39	Metadata behind the Interoperability of Wireless Sensor Networks. Sensors, 2009, 9, 3635-3651.	3.8	25
40	GIS Design: A Review of Current Issues in Interoperability. Geography Compass, 2009, 3, 1105-1124.	2.7	17
41	Towards an Integrated Model of Interoperability for Spatial Data Infrastructures. Transactions in GIS, 2009, 13, 43-67.	2.3	13
42	Semi-automatic metadata extraction from imagery and cartographic data. , 2007, , .		4
43	Prophet model for forecasting occupancy presence in indoor spaces using non-intrusive sensors. AGILE: GIScience Series, 0, 2, 1-13.	0.0	0