

Liang Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,697
citations

257101

24
h-index

315357

38
g-index

72
all docs

72
docs citations

72
times ranked

1886
citing authors

#	ARTICLE	IF	CITATIONS
1	Registration of Laser Scanning Point Clouds: A Review. <i>Sensors</i> , 2018, 18, 1641.	2.1	170
2	Retrieval of three-dimensional tree canopy and shade using terrestrial laser scanning (TLS) data to analyze the cooling effect of vegetation. <i>Agricultural and Forest Meteorology</i> , 2016, 217, 22-34.	1.9	95
3	Extraction of Urban Power Lines from Vehicle-Borne LiDAR Data. <i>Remote Sensing</i> , 2014, 6, 3302-3320.	1.8	75
4	Object-Based Change Detection in Urban Areas: The Effects of Segmentation Strategy, Scale, and Feature Space on Unsupervised Methods. <i>Remote Sensing</i> , 2016, 8, 761.	1.8	74
5	Robust Affine Invariant Feature Extraction for Image Matching. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2008, 5, 246-250.	1.4	62
6	Semi-Automatic Registration of Airborne and Terrestrial Laser Scanning Data Using Building Corner Matching with Boundaries as Reliability Check. <i>Remote Sensing</i> , 2013, 5, 6260-6283.	1.8	61
7	Impacts of LUCC on soil properties in the riparian zones of desert oasis with remote sensing data: A case study of the middle Heihe River basin, China. <i>Science of the Total Environment</i> , 2015, 506-507, 259-271.	3.9	56
8	Use of Tencent Street View Imagery for Visual Perception of Streets. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 265.	1.4	55
9	Post-earthquake assessment of building damage degree using LiDAR data and imagery. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 133-143.	0.9	53
10	River Detection in Remotely Sensed Imagery Using Gabor Filtering and Path Opening. <i>Remote Sensing</i> , 2015, 7, 8779-8802.	1.8	50
11	Analysis of farmland fragmentation in China Modernization Demonstration Zone since "Reform and Openness": a case study of South Jiangsu Province. <i>Scientific Reports</i> , 2015, 5, 11797.	1.6	41
12	Impact of policy incentives on electric vehicles development: a system dynamics-based evolutionary game theoretical analysis. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1039-1053.	2.1	40
13	Remote Sensing Image Interpretation for Urban Environment Analysis: Methods, System and Examples. <i>Remote Sensing</i> , 2014, 6, 9458-9474.	1.8	39
14	Using Octrees to Detect Changes to Buildings and Trees in the Urban Environment from Airborne LiDAR Data. <i>Remote Sensing</i> , 2015, 7, 9682-9704.	1.8	38
15	A Concave Hull Methodology for Calculating the Crown Volume of Individual Trees Based on Vehicle-Borne LiDAR Data. <i>Remote Sensing</i> , 2019, 11, 623.	1.8	38
16	River Delineation from Remotely Sensed Imagery Using a Multi-Scale Classification Approach. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 4726-4737.	2.3	36
17	Using big data to track marine oil transportation along the 21st-century Maritime Silk Road. <i>Science China Technological Sciences</i> , 2019, 62, 677-686.	2.0	35
18	Remote sensing image matching by integrating affine invariant feature extraction and RANSAC. <i>Computers and Electrical Engineering</i> , 2012, 38, 1023-1032.	3.0	34

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19	Building Point Detection from Vehicle-Borne LiDAR Data Based on Voxel Group and Horizontal Hollow Analysis. <i>Remote Sensing</i> , 2016, 8, 419.	1.8	33
20	Using Urban Development Boundaries to Constrain Uncontrolled Urban Sprawl in China. <i>Annals of the American Association of Geographers</i> , 2016, 106, 1321-1343.	1.5	33
21	Seasonal Pattern of Tidal-Flat Topography along the Jiangsu Middle Coast, China, Using HJ-1 Optical Images. <i>Wetlands</i> , 2013, 33, 871-886.	0.7	30
22	Topographic Mapping of Offshore Sandbank Tidal Flats Using the Waterline Detection Method: A Case Study on the Dongsha Sandbank of Jiangsu Radial Tidal Sand Ridges, China. <i>Marine Geodesy</i> , 2012, 35, 362-378.	0.9	29
23	Cultivated land information extraction from high-resolution unmanned aerial vehicle imagery data. <i>Journal of Applied Remote Sensing</i> , 2014, 8, 083673.	0.6	29
24	Using unmanned aerial vehicle for remote sensing application. , 2013, , .		26
25	Mapping Urban Areas Using a Combination of Remote Sensing and Geolocation Data. <i>Remote Sensing</i> , 2019, 11, 1470.	1.8	25
26	Satellite-derived bathymetry using Landsat-8 and Sentinel-2A images: assessment of atmospheric correction algorithms and depth derivation models in shallow waters. <i>Optics Express</i> , 2022, 30, 3238.	1.7	24
27	Hierarchical Registration Method for Airborne and Vehicle LiDAR Point Cloud. <i>Remote Sensing</i> , 2015, 7, 13921-13944.	1.8	22
28	A Hierarchical Airport Detection Method Using Spatial Analysis and Deep Learning. <i>Remote Sensing</i> , 2019, 11, 2204.	1.8	22
29	A Symmetry-Based Method for LiDAR Point Registration. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 285-299.	2.3	21
30	Technical Framework for Shallow-Water Bathymetry With High Reliability and No Missing Data Based on Time-Series Sentinel-2 Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 8745-8763.	2.7	20
31	Integrating Island Spatial Information and Integer Optimization for Locating Maritime Search and Rescue Bases: A Case Study in the South China Sea. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 88.	1.4	20
32	Automated Extraction of Built-Up Areas by Fusing VIIRS Nighttime Lights and Landsat-8 Data. <i>Remote Sensing</i> , 2019, 11, 1571.	1.8	19
33	Crowd-sourced pictures geo-localization method based on street view images and 3D reconstruction. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 141, 72-85.	4.9	18
34	A green view index for urban transportation: How much greenery do we view while moving around in cities?. <i>International Journal of Sustainable Transportation</i> , 2020, 14, 972-989.	2.1	17
35	Invariant triangle-based stationary oil platform detection from multitemporal synthetic aperture radar data. <i>Journal of Applied Remote Sensing</i> , 2013, 7, 073537.	0.6	16
36	Shiftable Leading Point Method for High Accuracy Registration of Airborne and Terrestrial LiDAR Data. <i>Remote Sensing</i> , 2015, 7, 1915-1936.	1.8	15

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37	Integration of Hyperspectral Imagery and Sparse Sonar Data for Shallow Water Bathymetry Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3235-3249.	2.7	14
38	Demarcation of Prime Farmland Protection Areas around a Metropolis Based on High-Resolution Satellite Imagery. Scientific Reports, 2016, 6, 37634.	1.6	14
39	Integration of LiDAR Data and Orthophoto for Automatic Extraction of Parking Lot Structure. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 503-514.	2.3	12
40	A self-adaptive homomorphic filter method for removing thin cloud. , 2011, , .		11
41	Novel parallel algorithm for constructing Delaunay triangulation based on a twofold-divide-and-conquer scheme. GIScience and Remote Sensing, 2014, 51, 537-554.	2.4	11
42	Validation of Global Airport Spatial Locations From Open Databases Using Deep Learning for Runway Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1120-1131.	2.3	11
43	Framework for Unknown Airport Detection in Broad Areas Supported by Deep Learning and Geographic Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6328-6338.	2.3	11
44	Grid interpolation algorithm based on nearest neighbor fast search. Earth Science Informatics, 2012, 5, 181-187.	1.6	10
45	LiDAR-based three-dimensional street landscape indices for urban habitability. Earth Science Informatics, 2017, 10, 457-470.	1.6	10
46	Building change detection in very high-resolution remote sensing image based on pseudo-orthorectification. International Journal of Remote Sensing, 2021, 42, 2686-2705.	1.3	10
47	Framework for monitoring the conversion of cultivated land to construction land using SAR image time series. Remote Sensing Letters, 2015, 6, 794-803.	0.6	9
48	Detecting unknown dams from high-resolution remote sensing images: A deep learning and spatial analysis approach. International Journal of Applied Earth Observation and Geoinformation, 2021, 104, 102576.	1.4	9
49	Registration of Mars remote sensing images under the crater constraint. Planetary and Space Science, 2013, 85, 13-23.	0.9	8
50	Automatic Registration of Coastal Remotely Sensed Imagery by Affine Invariant Feature Matching with Shoreline Constraint. Marine Geodesy, 2014, 37, 32-46.	0.9	8
51	Estimation of Ground PM2.5 Concentrations using a DEM-assisted Information Diffusion Algorithm: A Case Study in China. Scientific Reports, 2017, 7, 15556.	1.6	8
52	A new digital bathymetric model of the South China Sea based on the subregional fusion of seven global seafloor topography products. Geomorphology, 2020, 370, 107403.	1.1	8
53	Oil Flow Analysis in the Maritime Silk Road Region Using AIS Data. ISPRS International Journal of Geo-Information, 2020, 9, 265.	1.4	8
54	Generation of Pixel-Level SAR Image Time Series Using a Locally Adaptive Matching Technique. Photogrammetric Engineering and Remote Sensing, 2014, 80, 839-848.	0.3	7

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55	Hierarchical Classification of Urban ALS Data by Using Geometry and Intensity Information. Sensors, 2019, 19, 4583.	2.1	7
56	A parallel algorithm for constructing Voronoi diagrams based on point-set adaptive grouping. Concurrency Computation Practice and Experience, 2014, 26, 434-446.	1.4	6
57	A multi-scale evaluation of differential impacts of canonical ENSO and ENSO Modoki on drought in China. International Journal of Climatology, 2019, 39, 1985-2004.	1.5	6
58	A new method for remote sensing image matching by integrating affine invariant feature extraction and RANSAC. , 2010, , .		4
59	Hierarchical Filtering Strategy for Registration of Remote Sensing Images of Coral Reefs. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3304-3313.	2.3	4
60	Robust segmentation of building points from airborne LiDAR data and imagery. , 2011, , .		3
61	Dynamic triangle-based method for 3D building rooftop reconstruction from LiDAR data. , 2011, , .		3
62	Mapping Impacts of Human Activities from Nighttime Light on Vegetation Cover Changes in Southeast Asia. Land, 2021, 10, 185.	1.2	3
63	Transnational Accessibility between Residential Areas Based on Multimodal Transport System. ISPRS International Journal of Geo-Information, 2021, 10, 136.	1.4	3
64	3D Visualization of electromagnetic environment. , 2011, , .		2
65	A Synthetic Method for Atmospheric Diffusion Simulation and Environmental Impact Assessment of Accidental Pollution in the Chemical Industry in a WEBGIS Context. International Journal of Environmental Research and Public Health, 2014, 11, 9238-9255.	1.2	2
66	Demarcation of prime farmland protection areas from high-resolution satellite imagery. , 2017, , .		2
67	Process of airborne lidar data for detection of complex overpass. , 2014, , .		1
68	Framework for Automatic Coral Reef Extraction Using Sentinel-2 Image Time Series. Marine Geodesy, 2022, 45, 195-231.	0.9	1
69	Small core, big network: a comprehensive approach to GIS teaching practice based on digital three-dimensional campus reconstruction. Journal of Geography in Higher Education, 2014, 38, 119-135.	1.4	0
70	Autonomic visiting in digital 3D scenes. Earth Science Informatics, 2016, 9, 383-400.	1.6	0