Liang Cheng

List of Publications by Year
in descending order

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	Satellite-derived bathymetry using Landsat-8 and Sentinel-2A images: assessment of atmospheric correction algorithms and depth derivation models in shallow waters. Optics Express, 2022, 30, 3238.	1.7	24
2	Framework for Automatic Coral Reef Extraction Using Sentinel-2 Image Time Series. Marine Geodesy, 2022, 45, 195-231.	0.9	1
3	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
4	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
5	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
6	Mapping Impacts of Human Activities from Nighttime Light on Vegetation Cover Changes in Southeast Asia. Land, 2021, 10, 185.	1.2	3
7	Transnational Accessibility between Residential Areas Based on Multimodal Transport System. ISPRS International Journal of Geo-Information, 2021, 10, 136.	1.4	3
8	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
9	A green view index for urban transportation: How much greenery do we view while moving around in cities?. International Journal of Sustainable Transportation, 2020, 14, 972-989.	2.1	17
10	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
11	Oil Flow Analysis in the Maritime Silk Road Region Using AIS Data. ISPRS International Journal of Geo-Information, 2020, 9, 265.	1.4	8
12	Technical Framework for Shallow-Water Bathymetry With High Reliability and No Missing Data Based on Time-Series Sentinel-2 Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8745-8763.	2.7	20
13	Mapping Urban Areas Using a Combination of Remote Sensing and Geolocation Data. Remote Sensing, 2019, 11, 1470.	1.8	25
14	Automated Extraction of Built-Up Areas by Fusing VIIRS Nighttime Lights and Landsat-8 Data. Remote Sensing, 2019, 11, 1571.	1.8	19
15	Hierarchical Classification of Urban ALS Data by Using Geometry and Intensity Information. Sensors, 2019, 19, 4583.	2.1	7
16	A Hierarchical Airport Detection Method Using Spatial Analysis and Deep Learning. Remote Sensing, 2019, 11, 2204.	1.8	22
17	Impact of policy incentives on electric vehicles development: a system dynamics-based evolutionary game theoretical analysis. Clean Technologies and Environmental Policy, 2019, 21, 1039-1053.	2.1	40
18	A Concave Hull Methodology for Calculating the Crown Volume of Individual Trees Based on Vehicle-Borne LiDAR Data. Remote Sensing, 2019, 11, 623.	1.8	38

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19	Integrating Island Spatial Information and Integer Optimization for Locating Maritime Search and Rescue Bases: A Case Study in the South China Sea. ISPRS International Journal of Geo-Information, 2019, 8, 88.	1.4	20
20	A multiâ€scalar 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
21	Using big data to track marine oil transportation along the 21st-century Maritime Silk Road. Science China Technological Sciences, 2019, 62, 677-686.	2.0	35
22	A Symmetry-Based Method for LiDAR Point Registration. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 285-299.	2.3	21
23	Crowd-sourced pictures geo-localization method based on street view images and 3D reconstruction. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 141, 72-85.	4.9	18
24	Registration of Laser Scanning Point Clouds: A Review. Sensors, 2018, 18, 1641.	2.1	170
25	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
26	LiDAR-based three-dimensional street landscape indices for urban habitability. Earth Science Informatics, 2017, 10, 457-470.	1.6	10
27	Demarcation of prime farmland protection areas from high-resolution satellite imagery. , 2017, , .		2
28	Use of Tencent Street View Imagery for Visual Perception of Streets. ISPRS International Journal of Geo-Information, 2017, 6, 265.	1.4	55
29	Building Point Detection from Vehicle-Borne LiDAR Data Based on Voxel Group and Horizontal Hollow Analysis. Remote Sensing, 2016, 8, 419.	1.8	33
30	Object-Based Change Detection in Urban Areas: The Effects of Segmentation Strategy, Scale, and Feature Space on Unsupervised Methods. Remote Sensing, 2016, 8, 761.	1.8	74
31	Demarcation of Prime Farmland Protection Areas around a Metropolis Based on High-Resolution Satellite Imagery. Scientific Reports, 2016, 6, 37634.	1.6	14
32	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
33	Using Urban Development Boundaries to Constrain Uncontrolled Urban Sprawl in China. Annals of the American Association of Geographers, 2016, 106, 1321-1343.	1.5	33
34	Autonomic visiting in digital 3D scenes. Earth Science Informatics, 2016, 9, 383-400.	1.6	0
35	Retrieval of three-dimensional tree canopy and shade using terrestrial laser scanning (TLS) data to analyze the cooling effect of vegetation. Agricultural and Forest Meteorology, 2016, 217, 22-34.	1.9	95
36	Analysis of farmland fragmentation in China Modernization Demonstration Zone since â€œReform and Opennessâ€ a case study of South Jiangsu Province. Scientific Reports, 2015, 5, 11797.	1.6	41

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37	Shiftable Leading Point Method for High Accuracy Registration of Airborne and Terrestrial LiDAR Data. Remote Sensing, 2015, 7, 1915-1936.	1.8	15
38	River Detection in Remotely Sensed Imagery Using Gabor Filtering and Path Opening. Remote Sensing, 2015, 7, 8779-8802.	1.8	50
39	Using Octrees to Detect Changes to Buildings and Trees in the Urban Environment from Airborne LiDAR Data. Remote Sensing, 2015, 7, 9682-9704.	1.8	38
40	Hierarchical Registration Method for Airborne and Vehicle LiDAR Point Cloud. Remote Sensing, 2015, 7, 13921-13944.	1.8	22
41	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
42	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. Science of the Total Environment, 2015, 506-507, 259-271.	3.9	56
43	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
44	Extraction of Urban Power Lines from Vehicle-Borne LiDAR Data. Remote Sensing, 2014, 6, 3302-3320.	1.8	75
45	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
46	River Delineation from Remotely Sensed Imagery Using a Multi-Scale Classification Approach. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4726-4737.	2.3	36
47	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
48	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
49	Cultivated land information extraction from high-resolution unmanned aerial vehicle imagery data. Journal of Applied Remote Sensing, 2014, 8, 083673.	0.6	29
50	Process of airborne lidar data for detection of complex overpass. , 2014, , .		1
51	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
52	Automatic Registration of Coastal Remotely Sensed Imagery by Affine Invariant Feature Matching with Shoreline Constraint. Marine Geodesy, 2014, 37, 32-46.	0.9	8
53	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
54	Remote Sensing Image Interpretation for Urban Environment Analysis: Methods, System and Examples. Remote Sensing, 2014, 6, 9458-9474.	1.8	39

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55	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
56	Seasonal Pattern of Tidal-Flat Topography along the Jiangsu Middle Coast, China, Using HJ-1 Optical Images. Wetlands, 2013, 33, 871-886.	0.7	30
57	Registration of Mars remote sensing images under the crater constraint. Planetary and Space Science, 2013, 85, 13-23.	0.9	8
58	Invariant triangle-based stationary oil platform detection from multitemporal synthetic aperture radar data. Journal of Applied Remote Sensing, 2013, 7, 073537.	0.6	16
59	Using unmanned aerial vehicle for remote sensing application. , 2013, , .		26
60	Semi-Automatic Registration of Airborne and Terrestrial Laser Scanning Data Using Building Corner Matching with Boundaries as Reliability Check. Remote Sensing, 2013, 5, 6260-6283.	1.8	61
61	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. Marine Geodesy, 2012, 35, 362-378.	0.9	29
62	Remote sensing image matching by integrating affine invariant feature extraction and RANSAC. Computers and Electrical Engineering, 2012, 38, 1023-1032.	3.0	34
63	Grid interpolation algorithm based on nearest neighbor fast search. Earth Science Informatics, 2012, 5, 181-187.	1.6	10
64	Robust segmentation of building points from airborne LiDAR data and imagery. , 2011, , .		3
65	A self-adaptive homomorphic filter method for removing thin cloud. , 2011, , .		11
66	3D Visualization of electromagnetic environment. , 2011, , .		2
67	Dynamic triangle — Based method for 3D building rooftop reconstruction from LiDAR data. , 2011, , .		3
68	A new method for remote sensing image matching by integrating affine invariant feature extraction and RANSAC. , 2010, , .		4
69	Post-earthquake assessment of building damage degree using LiDAR data and imagery. Science in China Series D: Earth Sciences, 2008, 51, 133-143.	0.9	53
70	Robust Affine Invariant Feature Extraction for Image Matching. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 246-250.	1.4	62