



中国测绘学会

Chinese Society for Geodesy Photogrammetry and Cartography

Chinese Society for Geodesy, Photogrammetry and Cartography

28 Lianhuachixi Road, Haidian District, Beijing 100830, China

Phone: +86 10 63881407 Fax: +86 10 63881320 Email: 1246538468@qq.com

Website: www.csgpc.org

Prof. Thomas Schulz

Secretary General and Treasurer

International Cartographic Association (ICA)

March 7, 2023

Nomination for Prof. Jiping Liu for Vice President of ICA Executive Committee for 2023–2027

ICA Executive Committee,

On behalf of the Chinese Society for Geodesy, Photogrammetry and Cartography (CSGPC), I am pleased to nominate Prof. Jiping Liu as the candidate of Vice President of the ICA Executive Committee for the period of 2023–2027. Prof. Liu is a professor of Cartography and GIS, and vice president at Chinese Academy of Surveying and Mapping (CASM). He received his BSc. and MSc. degrees in Cartography and GIS from Wuhan Technical University of Surveying and Mapping, China, in 1989 and 1992, respectively. In 2004, he obtained his PhD in Cartography and GIS at the PLA Information Engineering University, and as a postdoctoral scholar in



中国测绘学会

Chinese Society for Geodesy Photogrammetry and Cartography

Tsinghua University from 2005 to 2008. He has worked at CASM since 2008. During the time period in CASM, he has been in charge of many national-level projects on Cartography, GIS and Emergency Disaster Management (EDM) applications such as Key Technology and Equipment of Emergency Communication, and Application of Integrated Intelligent Service for Disaster Reduction (National Key R&D Program of China), as well as Platform of Remote Sensing Information Integration and Aided Decision Making (National High-tech R&D Program). Prof. Liu has made significant contributions to promote Cartography, GIS and EDM applications through original research, publications, application developments, and services to the profession and societies.

Prof. Liu has continuously and actively participated in ICA activities since 2003, and has much experience on dealing with ICA commission affairs. He served as vice-chair of ICA Commission on Cartography in Early Warning and Crisis Management (CEW&CM) during 2015-2019 and the chairman of CEW&CM during 2019-2023. During his serving terms, numerous international seminars and training courses have been successfully organized such as "Workshop on Capacity Building of Emergency Mapping Support in Asian Region" in Kunming of China and "Mitigation and Risk Reduction for Cartography in Big Data Era" in Haikou of China. During the COVID-19, he also had organized a number of virtual international pre-conference workshops such as workshop at ICC2021 in Italy, EuroCarto2022 in Vienna and ICCGIS2022 in Bulgaria. Furthermore, Prof Milan Konecny and Prof. Menno-Jan Kraak, Former President of ICA, and Prof. Philippe De Maeyer, Vice President of ICA had been invited to attend the activities of international academic exchanges and ICA affairs discussions in China. With almost 20 years'



中国测绘学会

Chinese Society for Geodesy Photogrammetry and Cartography

services to ICA at different levels and positions, he is very familiar with ICA Statutes/Bylaws and process of operations.

Prof. Jiping Liu is also very active in the Chinese Society. Currently he is the Executive Director of China Geographic Information Industry Association, Executive Director of Chinese Society of Surveying and Mapping, the president of Information Network Branch and Director of the E-government Information Commission of China Association for Geographic Information Society. He is also a Guest Professor in Wuhan University, Henan University, Southwest Jiaotong University, etc.

We will support Prof. LIU to lead ICA as Vice President if he is elected at the General Assembly this year. CSGPC, as a national member, will work closely with ICA to fulfill its obligations.

Sincerely yours,

Zhenzhong Peng

Vice President and Secretary General

Chinese Society for Geodesy Photogrammetry and Cartography

Telephone : +86-10-63881477

Email: csgpc2023@163.com



中 国 测 绘 学 会
Chinese Society for Geodesy Photogrammetry and Cartography

**Declaration, confirmation of willingness to serve as Vice-President of
ICA and abide by the Statutes and by-laws**

To ICA Executive Committee,

I hereby confirm that I am willing to be nominated to the Vice-President position of the ICA by the China national member to ICA (Chinese Society for Geodesy, Photogrammetry and Cartography, CSGPC) and to serve in this function as member of the ICA Executive Committee in upcoming term 2023–2027. With my continuous services to ICA as the vice-chair and chair of Commission on Cartography in Early Warning and Crisis Management (CEW&CM) during the period of 2015-2023, I have studied the ICA Statutes and By-laws extensively.

My research interests aim at emergency geographic information service, geospatial big data analysis in big data Era, E-government geographic information service, online geographic information monitoring and spatial decision making, and gained many national academic titles such as "Technological Innovative Leading Talent" and Young Leading Talent of "Innovative Talent Promotion Program". Over the past 20 years, I have been granted the second award of scientific and technological progress twice in National level, and 11 times of the first award in State level. I published five books, more than one hundred SCI/EI papers in total and carried out a number of national and provincial scientific research projects related to Cartography, GIS and Emergency Disaster Management (EDM). Besides serving ICA CEW&CM, I have rich experience in international academic exchanges as the Director of National Network of Surveying and Mapping Information Branch of Chinese Society for Surveying Mapping and Geoinformation and Director of the E-government Information Commission of China Association for Geographic Information Society.



中国测绘学会

Chinese Society for Geodesy Photogrammetry and Cartography

If having the opportunity to serve as a Vice President of ICA for 2023–2027, I confirm that I will be able to spend more time on it, and make lasting contributions to ICA. Furthermore, some commitments will be made as bellows:

- Build a cartographic technical training Center in China for the developing countries, in order to provide full-coverage Data Sharing, Tech Support, and Decision Making.
- Establish an Asia network with the support of other Asian countries, to inspire more organizations to participate in ICA activities.
- Encourage many software companies in China to release popular GIS software for FREE to ALL ICA members.
- Actively participate in the construction and co-organizing of the annual International Forum on Cartography and Big Data as well as any other events or activities.
- Organize Cartography and GIS-related international summer schools for the younger students all over the world.

I look forward to serving as a Vice President of ICA and fulfill all my commitments.

Sincerely,

Jiping Liu
Chair, CEW&CM

Dr. Jiping Liu
Professor of Cartography and GIS
Vice President, Chinese Academy of Surveying and Mapping
100830 Beijing
P. R. China

28 February, 2023

CURRICULUM VITAE

Personal Information

- ◆ Date of birth: 22. December, 1967
- ◆ Gender : Male
- ◆ Mobile : (86)186-1026-8655
- ◆ Email : liujp@casm.ac.cn
- ◆ Address: 28 Lianhuachi West Road, Haidian District, Beijing



Biography

Jiping Liu, PhD supervisor, National high-level scientific and technological innovation talent, young and middle-aged leading talent of "Innovative Talent Promotion Program" , the national-level person selected of "Hundreds, Thousands and Ten-thousands of Talents Project In New Century" , chairman of the International Cartographic Association Commission On Cartography in Early Warning and Crises Management (ICA CEW&CM).

Jiping Liu presided over the completion of research and application demonstration in integrated comprehensive disaster reduction intelligent services , project of national-level information resource integration and utilization, service platform(phase one) of national government, data resource sharing project & big data analysis system and many other national scientific research or engineering projects, formulated government service integration, big data Analyze model standards, presided over the completion of the independent R&D, promotion and application of the five-generation government geographic information service platform, won 2 second-class national scientific and technological progress awards, provincial and ministerial-level scientific and technological progress special/first-class 11 items, published "Government-oriented decision-making geospatial "Data Technology and Practice" and other 5 books, published more than 100 SCI/EI research papers, obtained more than 10 patents and standards.

The main outcomes related to the application project: the key technology of national e-government collaborative spatial decision service (2016 Second Prize of National Science and Technology Progress Award), the key technology of e-government geographic information active service for comprehensive decision-making, Internet geospatial information detection and early warning technology (2015, 2018 Chinese Society of Surveying and Mapping Science and Technology Progress Special Award), based on semantic similarity Geographic element query expansion method, a semantic matching method based on concept lattice-based heterogeneous spatial information service classification, and a multi-network collaborative work method for monitoring spatial dynamic elements (the authorized patent).

Research Interests

- ◆ The theoretical and technical research on e-government spatial decision
- ◆ Spatial assistant decision-making services
- ◆ Spatial big-data analysis
- ◆ Software development of GIS
- ◆ Emergency geographic information service and mapping

Education

- ◆ Studies at Department of Cartography, Wuhan Technical University of Surveying and Mapping (WTUSM, 1985-1989)
- ◆ Degree of Msc in Computer Aided Cartography, Wuhan Technical University of Surveying and Mapping (WTUSM, 1989-1992)
- ◆ Degree of PhD in Cartography and GIS, Zhengzhou Insitute of Surveying and Mapping (1999-2004)
- ◆ Post doctor in Tsinghua University(2005-2008)

Professional Positions

- ◆ 2010-present Vice President, Professor, Chinese Academy of Surveying and Mapping
- ◆ 1998-2010 Professor, Director of Government Geographic Information System Research Center, Chinese Academy of Surveying and Mapping
- ◆ 1994-1998 Associate professor, Deputy Director of Institute of Geographic Information System and Map Engineering, Chinese Academy of Surveying and Mapping
- ◆ 1992-1994 Assistant professor, Chinese Academy of Surveying and Mapping

Research Experiences

- ◆ Doctoral supervisor, more than 17-year supervision of master's thesis and 11-year of PhD dissertation
- ◆ National and Provincial scientific research projects undertaken as PI:
 - *National key research and development plan project, key technology and equipment of emergency rescue communication command with sky and earth integration (2022YFC3005700)*, responsible for the top-level design of the project, research on emergency command and communication, disaster monitoring and discrimination, disaster situation evolution, and in charge of the research and development and demonstration application of holographic real combat command platform, 2022-2025
 - *National key research and development Plan project, research and Application demonstration of integrated intelligent service for Disaster Reduction (2016YFC0803100)*, responsible for top-level design of the project, research on emergency big data analysis, emergency intelligent service, and technical standards for integrated and comprehensive disaster reduction,2016-2020
 - *National major projects, Basic Statistical analysis of Geographical conditions Monitoring*, responsible for the overall design of basic statistical analysis of national geographic conditions information, 2015-2020

- *Research Project of Surveying and Mapping Geographic information public welfare industry, geospatial Big data analysis service for government decision-making (201512032)*, responsible for the overall design of the project, research on big data service of government affairs, and preside over monographs on big data service of government affairs, 2015-2016
- *Construction and application of map review information business system, project leader*, responsible for overall project planning and research on geographic information security technology, 2014-2016
- ◆ Main Projects undertaken as PI:
 - *Research on Detection, Forecasting and Early Warning of Network Geographic Information*, from National High-tech R&D Program of China (863 Program), 2012-2015
 - *Multi-scale Data Organization and Management of 3D Moving Objects based on Improved MOST*, from National Natural Science Foundation of China, 2010-2012
 - *Spatial Statistical Model about the Layout and Developmental Difference of Chinese Cities*, from National Natural Science Foundation of China, 2010-2012
 - *Platform of Remote Sensing Information Integration and Assistant Decision making*, from National High-tech R&D Program of China (863 Program), 2009-2010
 - *Ontology Driven Geographic Information Retrieval and Service*, from National High-tech R&D Program of China (863 Program), 2007-2010
 - *Application Demonstration of E-government Spatial Assistant Decision Making*, from The National Basic Surveying and Mapping Project, 2006-2010
 - *Key Technologies and Application of Emergency Geographic Information Platform Architecture*, from National Science & Technology Pillar Program, 2007-2008
 - *Construction of Public Emergency Geographic Information Service Platform*, from The National Basic Surveying and Mapping Project, 2007-2008

Publications

◆ Academic Journals

1. Liu Jiping, Konečný Milan, Du Qingyun, et al. The latest progress of data fusion for integrated disaster reduction intelligence service [J]. *International Journal of Image and Data Fusion*, 2021, 12(4): 265-267.
2. Liu Mengmeng, Liu Jiping, Xu Shenghua, et al. Landslide susceptibility mapping with the fusion of multi-feature SVM model based FCM sampling strategy: A case study from Shaanxi Province[J]. *International Journal of Image and Data Fusion*, 2021, 12(4): 349-366.
3. Zhang Ya, Liu Jiping, Wang Yong, et al. Research on the Method of Urban Jobs-Housing Space Recognition Combining Trajectory and POI Data [J]. *ISPRS International Journal of Geo-Information*, 2021, 10(2): 71.
4. Luo An, Liu Jiping, Li Pengpeng, et al. Chinese address standardisation of POIs based on GRU and spatial correlation and applied in multi-source emergency events fusion[J]. *International Journal of Image and Data Fusion*, 2021, 12(4): 319-334.
5. Liu Jiping, Zhang Zhiran, Liu Chunyang, et al. Exploiting two-dimensional

geographical and synthetic social influences for location recommendation[J]. ISPRS International Journal of Geo-Information, 2020, 9(4): 285

6. Liu Jiping, Deng Yue, Wang Yong, et al. Urban nighttime leisure space mapping with nighttime light images and POI data[J]. Remote Sensing, 2020, 12(3): 541

7. LiuJiping, LIU Mengmeng, Xu Shenghua, et al. A Survey on Integrated and Comprehensive Disaster Reduction Technology in the Era of Big Data[J]. Geomatics and Information Science of Wuhan University,2020,45(08):1107-1116.

8. Deng Yue, Liu Jiping, Luo An, et al. Spatial mismatch between the supply and demand of urban leisure services with multisource open data[J]. ISPRS International Journal of Geo-Information, 2020, 9(8): 466.

9. Liu Chunyang, Liu Jiping, Xu Shenghua, et al. A spatiotemporal dilated convolutional generative network for point-of-interest recommendation[J]. ISPRS International Journal of Geo-Information, 2020, 9(2): 113.

10. Xu Shenghua, Liu Jiping, Wang Xianghong, Zhang Yu, Lin Rongfu, Zhang Meng, Liu Mengmeng, Jiang Tao. Landslide Susceptibility Assessment Method Incorporating Index of Entropy Based on Support Vector Machine: A Case Study of Shaanxi Province[J]. Geomatics and Information Science of Wuhan University, 2020, 45(8): 1214-1222.

11. Wang Jian, Liu Jiping, Han Houzeng, Zhen Jie, Liu Fei. Key Technologies of Seamless Location in Emergency Rescue[J]. Geomatics and Information Science of Wuhan University, 2020, 45(8): 1126-1136.

12. Li Pengpeng, Luo An, Liu Jiping, et al. Bidirectional gated recurrent unit neural network for Chinese address element segmentation[J]. ISPRS International Journal of Geo-Information, 2020, 9(11): 635.

13. Deng Yue, Luo An, Liu Jiping, et al. Point of interest matching between different geospatial datasets[J]. ISPRS International Journal of Geo-Information, 2019, 8(10): 435.

14. DU Qingyun, WANG Yumiao, LIU Jiping, LI Aiqin, REN Fu, LIU Tao, YAN Han. Adaptive Cartographic Techniques for Disaster Emergency Services[J]. Geomatics and Information Science of Wuhan University, 2020, 45(8): 1117-1125.

15. ZHEN Jie, WU Jianxin, LIU Jiping, XU Shenghua, ZHOU Zhenfa, XIN Haiqiang. A High Accuracy Positioning Method for Single Base Station in Indoor Emergency Environment[J]. Geomatics and Information Science of Wuhan University, 2020, 45(8): 1146-1154.

16. Ju Yucui, Liu Jiping. Mechanisms of the tailoring workshops for teacher sustainable development: A case study of a middle school in Shanghai1[J]. Educational Philosophy and Theory, 2020: 1-15.

17. Liu Jiping, Kang Xiaochen, Dong Chun, et al. Simulation of real-time path planning for large-scale transportation network using parallel computation[J]. Intelligent Automation and Soft Computing, 2019, 25(1): 65-77.

18. Liu Jiping, DongChun, Kang Xiaochen, Qiu Shike, Zhao Rong, Li Bin, Sun Lijian. National Geographical Conditions Statistical Analysis in the Era of Big Data[J]. Geomatics and Information Science of Wuhan University, 2019, 44(1): 68-76, 83.

19. Liu Jiping, Zhang Yongchuan, Xu Shenghua, et al. An incremental construction method of road network considering road complexity[J]. Acta Geodaetica et Cartographica Sinica, 2019, 48(4): 480-488.

20. Liu Chunyang, Liu Jiping, Wang Jian, et al. An attention-based spatiotemporal gated recurrent unit network for point-of-interest recommendation[J]. ISPRS International Journal of Geo-Information, 2019, 8(8): 355.
21. Zhang Zhiran, Liu Jiping, Qiu Agen, et al. The shortest path approximation algorithm for large scale road network. Acta Geodaetica et Cartographica Sinica, 2019, 48(1): 86-94.
22. Deng Yue, Liu Jiping, Liu Yang, et al. Detecting urban polycentric structure from POI data[J]. ISPRS International Journal of Geo-Information, 2019, 8(6): 283.
23. Deng Yue, Luo An, Liu Jiping, et al. Point of interest matching between different geospatial datasets[J]. ISPRS International Journal of Geo-Information, 2019, 8(10): 435.
24. Liu Jiping, Zhang Yongchuan, Xu Shenghua, Zhang Fuhao, Top Level Design Study for the Integrated Disaster Reduction Intelligent Service, Geomatics and Information Science of Wuhan University, 2018, 43(12):2250=2258.
25. Kang Xiaochen, Liu Jiping, Dong Chun, Xu Shenghua. Using High-Performance Computing to Address the Challenge of Land Use/Land Cover Change Analysis on Spatial Big Data. ISPRS Int. J. Geo-Inf. 2018, 7, 273.
26. Qiu Agen, Liu Jiping, Zhang Y. A Word Segmentation and Internet Geographic Data based Chinese-Geocoding Approach. Journal of Advanced Oxidation Technologies. 2018.21(2)
27. Zhang Xiuhong, Chen Di, Liu Jiping. A Space-Time Periodic Task Model for Recommendation of Remote Sensing Images[J]. ISPRS International Journal of Geo-Information, 2018, 7(2):40.
28. Zhang Xiuhong, Chen Di, Liu Jiping, Guo Qingsheng. A Multilevel Identification Approach to Structured Building Clusters[J]. Geomatics and Information Science of Wuhan University, 2018, 43(8): 1144-1151.
29. Liu Jiping, Zhang Fuhao, Xu Shenghua. Progresses and Prospects in Geospatial Big Data for E-government[J]. Acta Geodaetica et Cartographica Sinica, 2017, 46(10): 1678.
30. Liu Jiping, Zhao Yangyang, Yang Yi, et al. A Mixed Geographically and Temporally Weighted Regression: Exploring Spatial-Temporal Variations from Global and Local Perspectives[J]. Entropy, 2017,19 (53).
31. Jiping Liu, Xiaochen Kang, Chun Dong, et al. A Stream Tilling Approach to Surface Area Estimation for Large Scale Spatial Data in a Shared Memory System[J]. Open Geosciences, 2017,9:622-634.
32. Jiping Liu, Shenghua Xu, Fuhao Zhang, et al. A Hybrid Genetic-Ant Colony Optimization Algorithm for the Optimal Path Selection[J]. Intelligent Automation & Soft Computing, 2017,23(2):235-242.
33. Zhang Yongchuan, Liu Jiping, Qian Xinlin, et al. An automatic road network construction method using massive GPS trajectory data[J]. ISPRS International Journal of Geo-Information, 2017, 6(12): 400.
34. Zhao Yangyang, Liu Jiping, Xu Shenghua, et al. A Geographic Weighted Regression Method Based on Semi-supervised Learning. Acta Geodaetica et Cartographica Sinica, 2017, 46(1): 123-129.
35. Wang Liang, Liu Jiping, Xu Shenghua, et al. Forest above ground biomass estimation from remotely sensed imagery in the mount tai area using the RBF ANN algorithm[J]. Intelligent Automation & Soft Computing, 2017: 1-8.
36. GUO Qingsheng, XIE Yuwu, LIU Jiping, WANG Lin, ZHOU Lin. Algorithms for

Road Networks Matching Considering Scale Variation and Data Update[J]. *Acta Geodaetica et Cartographica Sinica*, 2017, 46(3): 381-388

37. Hu Lujin, He Zongyi, Liu Jiping. Adaptive multi-scale population spatialization model constrained by multiple factors: A case study of Russia[J]. *The Cartographic Journal*, 2017, 54(3): 265-282.

38. Zhou Lu, Xu Shiming, Liu Jiping, et al. Improving L-band radiation model and representation of small-scale variability to simulate brightness temperature of sea ice[J]. *International Journal of Remote Sensing*, 2017, 38(23): 7070-7084.

39. Liu Jiping, Yang Yi, Xu Shenghua, et al. A geographically temporal weighted regression approach with travel distance for house price estimation[J]. *Entropy*, 2016, 18(8): 303.

40. Hu Lujin, Liu Jiping, He Zongyi. Self-adaptive revised land use regression models for estimating PM_{2.5} concentrations in Beijing, China[J]. *Sustainability*, 2016, 8(8): 786.

41. Zhang Jixian, Liu Jiping, Zhai Liang, et al. Implementation of geographical conditions monitoring in Beijing-Tianjin-Hebei, China[J]. *ISPRS International Journal of Geo-Information*, 2016, 5(6): 89.

42. Yang Yi, Liu Jiping, Xu Shenghua, et al. An extended semi-supervised regression approach with co-training and geographical weighted regression: a case study of housing prices in Beijing[J]. *ISPRS International Journal of Geo-Information*, 2016, 5(1): 4.

43. Wang Yong, Liu Jiping, Guo Qingsheng, Luo An. The Standardization Method of Address Information for POIs from Internet Based on Positional Relation[J]. *Acta Geodaetica et Cartographica Sinica*, 2016, 45(5): 623-630.

44. Xue Shuqiang, Dang Yamin, Liu Jiping, et al. Bias estimation and correction for triangle-based surface area calculations[J]. *International journal of geographical information science*, 2016, 30(11): 2155-2170.

45. Liu Minshi, Liu Jiping, He Guifang, Long Yi. River System Elevation Extraction Based on the Cooperative Relationship of Contours. *Acta Geodaetica et Cartographica Sinica*, 2015, 44(S0):102-107

46. Xu Shenghua, Liu Jiping, Zhang Fuhao, et al. A combination of genetic algorithm and particle swarm optimization for vehicle routing problem with time windows[J]. *Sensors*, 2015, 15(9): 21033-21053.

47. Hu Lujin, He Zongyi, Liu Jiping, et al. Method for measuring the information content of terrain from digital elevation models[J]. *Entropy*, 2015, 17(10): 7021-7051.

48. Liu Jiping, Zhang Weisong, Fan Rongshuang, Xu Shenghua. Optimal Location Analysis of Large-scale Digital Television Stations Based on Voronoi Diagram. *Environmental Engineering and Management Journal*[J], 2014, 13(5):1299-1306.

49. Kang Xiaochen, Liu Jiping, Lin Xiangguo. Streaming Progressive TIN Densification Filter for Airborne LiDAR Point Clouds Using Multi-Core Architectures[J]. *Remote Sensing*, 2014, 6(8):7212-7232.

50. Liu Jiping, Shen Jin, Zhao Rong, Xu Shenghua. Extraction of Individual Tree Crowns from Airborne LiDAR Data in Human Settlements[J]. *Mathematical and Computer Modelling*, 2013, 58(3-4):524-535.

51. Liu Jiping, Zhang Jianbo, Wang Yong, Semantic Mapping of Spatial Features from Charts and Topographic Maps Based on Domain Ontology, *Geomatics and information Science*

of Wuhan University, 2013,3:319-323.

52. Liu Jiping, Feng Liang, Wang Rushang, et al. Components screening from *Curcuma longa* Linn. and their bioaffinity property on human umbilical vein endothelial cells by cell membrane chromatography[J]. *Journal of Liquid Chromatography & Related Technologies*, 2013, 36(15): 2142-2155.

53. Kang Xiaochen, Liu Jiping, Lin Xiangguo, Parallel Filter of Progressive TIN Densification for Airborne LiDAR Point Cloud Using Multi-core CPU, *Acta Geodaetica et Cartographica Sinica*, 2013,42(3):331-336.

54. Liu Jiping, Liu Hengfei, Shen Jing, Wang Yong, Research on Effective Organization and Scheduling of Massive 3D Building Models for Constructing Digital Rural[J], *Sensor Letters*, 2012, 10(1-2): 138-145.

55. Shen Jing, Liu Jiping, Lin Xiangguo, Zhao Rong, Object-based classification of airborne Light Detection and Ranging point clouds in human settlements[J], *Sensor Letters*, 2012, 10(1-2): 221-229.

56. Guo Qinsheng, Wang Xiaoyan, Liu Jiping, Progressive Combination of Polygon Groups, *Geomatics and information Science of Wuhan University*, 2012,2:220-223+232.

57. Zhang Jianbo, Liu Jiping, Liu Hengfei Wang Bei, WFS Feature Semantic Retrieval Based on Ontology, *Geomatics and information Science of Wuhan University*, 2012,37(5):520-524.

58. Zhang Jianbo, Liu Jiping, Wang Bei, Spatial Information Services Chaining Based on Graphic Workflow, *Journal of Computer Research and Development*, 2012,6:1357-1362.

59. Shen Jing, Liu Jiping, Lin Xiangguo, Zhao Rong, A Method for Delaunay Triangulation by Integration of Distance Transformation and Region Adjacency Graphics, *Geomatics and information Science of Wuhan University*, 2012,8:1000-1003.

60. Liu Jiping, Curry Judith A, Zhang Zhanhai, et al. Evaluation of satellite sea surface temperature in the southern hemisphere using Chinese Antarctic research cruise observations[J]. *International journal of remote sensing*, 2011, 32(1): 171-184.

61. Wang Xianghong, Liu Jiping, Xu Shenghua, et al. Research on Integration and Analysis of Yushu Earthquake Disaster Information[C]//Proceedings of the 2011, International Conference on Informatics, Cybernetics, and Computer Engineering (ICCE2011) November 19–20, 2011, Melbourne, Australia. Springer, Berlin, Heidelberg, 2011: 625-632.

62. Xu Shenghua, Liu Jiping, Wang Yong, Han Litao, Zhang Yunsheng, Straight Line Extraction via Multi-scale Hough Transform Based on Pre-storage Weight Matrix[J], *International Journal of Remote Sensing*, 2011, 32(23) : 8315~8330.

63. Jing Shen, Jiping Liu, Xiangguo Lin, Rong Zhao, Xu Shenghua. Cropland Extraction from Very High Spatial Resolution Satellite Imagery by Object-Based Classification Using Improved Mean Shift and One-Class Support Vector Machines, *Sensor Letters*, 2011, 9(3) :997~1005.

64. Liu Jiping, Li Bin, Shi Lihong, Wang Zhengfeng, Tao Kunwang, An Automated Retrieval Method of Ueo-spatial Event Information Based on Ontology[J], *Acta Geodaetica et Cartographica Sinica*, 2011,4:502-508.

65. Liu Jiping, Xu Shenghua, Zhang Fu-hao, Wang Liang, Research and Implementation of Government Geographic Information Service Platform, *Journal of Earth Science and Engineering*, 2011, 1(2):119~125.

66. Shen Jing, Liu Jiping, Lin Xiangguo. Airborne LiDAR Data Filtering by Morphological Reconstruction Method[J], *Geomatics and Information Science of Wuhan University*, 2011,2:167-170+175+254.

67. Zhang Jixian, Huang Guoman, Liu Jiping SAR remote sensing monitoring of the Yushu Earthquake disaster situation and the information service system, *Journal of Remote Sensing*, 2010,5:1038-1052.

68. WANG Zhenfeng, LIU Jiping. Geo-spatial Data Interoperability in Mechanism of Acquisition[J]. *Geomatics and Information Science of Wuhan University*, 2009, 34(9): 1034-1038.

69. Liu Jiping, Liu Ping, Zhao Rong. Spatial analysis and statistic of Lancang river basin's residential distribution[J]. *Journal of Liaoning Technical University(Natural Science)*. 2008,27(06):832-835.

70. Xu Shenghua, Zhu Qing, Liu Jiping, et al. Straight Line Extraction via Multi-scale Hough Transform Based on Pre-Storage Weight Matrix [J]. *Acta Geodaetica et Cartographica Sinica*, 2008(01):83-88

71. Dong Weihua, Guo Qingsheng, Liu Jiping. Schematic road network map progressive generalization based on multiple constraints[J]. *Geo-spatial Information Science*, 2008, 11(3): 215-220.

72. Dong Weihua, Liu Jiping, Guo Qingsheng. Construction of E-Government GIS based on .NET platform and Web Service [J]. *Journal of Liaoning Technical University*, 2007(05):664-667

73. Liu Jiping, Tao Kunwang, Wang Liang, et al. Research and implementation of SOA-based E-government spatial information service[J]. *Journal of Liaoning Technical University*, 2006, 25(SUPPL.): 81-83.

74. Liu Jiping, Liu Zhao, Wang Liang. Research on the spatial information service for E-government based on function collaboration[J]. *Acta Geodaetica et Cartographica Sinica*, 2006, 35: 299-302.

75. Liu Jiping, Liu Zhao, Li Yuxiang, Li Qingyuan. Spatial data exchange for E-government. *Journal of Liaoning Technical University*, 2006(5):672-675

76. Li Hongsheng, Guo Qingsheng, Liu Jiping, Zheng Chunyan. Rapid Algorithm of Building Typification Based on Data Matching[J]. *Geomatics and Information Science of Wuhan University*, 2006, 31(7): 636-639.

77. Wang Tao, Liu Jiping, Wu Hehai, The Extraction of Contour Lines from Grid DEM Based on Sorting. *Acta Geodaetica et Cartographica Sinica*, 2006(04):390-394

78. Guo Qingsheng, Li Hongsheng, Liu Jiping. Buildings Progressive Typification Based on Weighted Mesh Simplification[J]. *Geomatics and Information Science of Wuhan University*, 2005, 30(4): 293-296.

79. Williams III Robert O, Liu Jiping. The influence of plasticizer on heat-humidity curing of cellulose acetate phthalate coated beads[J]. *Pharmaceutical development and technology*, 2001, 6(4): 607-619.

◆ **Monograph**

1. Liu Jiping, Dong Chun, Wang liang, et al. *Statistical Analysis Technology and Practice of Geographical National Conditions*[M]. China Science Publishing & Media Ltd, 2020

2. Liu Jiping, Zhang Fuhao, Qiu Agen et al. *Geospatial Big Data Technologies and*

Applications for Government Decision-making[M]. Surveying and Mapping Press,2019

3. Liu Jiping, Wang Yong, Zhang Fuhao, Luo An. Acquisition, Fusion, Analysis and Mining of Web Geospatial Information[M]. Surveying and Mapping Press,2017

4. Cheng Pengfei, Liu Jiping, Dong Chun, et al. Blue Book on National and Geography Conditions of China[M]. Surveying and Mapping Press,2017

5. Liu Jiping, Zhang Fuhao, Wang Liang, et al. E-government Geographic Information Service[M].Surveying and Mapping Press,2014

◆ **Patent**

1. Dong Chun, Yu Haoyang, LiuJiping, Su Bin, Yang Zhen. Automatic extraction of roadside trees based on geographic data and image classification.(CN202210128588.3)

2. Che XiangHong, Sun qing, Liu Jiping, Wang yong. Xu Shenghua, Loan, Du Kaixuan. Spatio-temporal fusion method of normalized vegetation index data based on different spatio-temporal resolution.(CN202210079071.X)

3. Che XiangHong; Sun qing; Liu Jiping; Wang yong. Xu Shenghua; Luo An; Du Kaixuan. Downscaling method of Surface evapotranspiration data based on multi-source data and deep learning.(CN202111046481.6)

4. Che XiangHong; Sun qing; Liu Jiping; Wang yong. Xu Shenghua; Luo An; Hui-hui liu. A vegetation phenology extraction method based on high spatio-temporal resolution remote sensing data.(CN202111018642.0)

5. Kang XiaoChen; Liu Jiping; Kang scenery; Dong Chun; Yang yi. Pattern spot change trajectory extraction method and system for earth surface coverage data.(CN:202110551852:A)

6. He Wangjun; Liu Jiping; Zhang Fuhao; Qiu Agen; Shi Lihong. Geographic grid-based government affair information resource integration method.(CN:201710264026:A)

7. Wang Zhonghui;Xu Zhibang;Yan Haowen;Wu Fang;Sun Li;Lu Xiaomin;Liu Jiping;Du Shihong.Cooperated POI data path selection method.(CN:201710394039:A)

8. Yan Haowen;Lu Xiaomin;Wang Zhonghui;Wu Fang;Liu Jiping.Point group target automatic-synthesis algorithm under support of big data.(CN:201711048489:A)

9. Zhang Liming; Lu Wenqing; Yan Haowen; Liu Jiping. Copyright protection method for digital fingerprint of vector map based on I codes and CFF codes.(CN:201710582789:A)

10. Liu Jiping; Luo An; Wang Yong; Cai Di. Deep web space data acquisition method and apparatus.(CN:201510438103:A)

11. Sun Lijian; Liu Haochen; Liu Jiping; Guo Qingsheng; Zhao Rong; Dong Chun; Xu Shenghua; Sun Zhen; Su Dede; Wang Hua; Xu Yongmin. Map making rule construction and structured organization method and system thereof(CN:201510229676:A)

12. Liu Jiping;Luo An;Wang Yong;Wang Keyong; Place name and address extraction method and apparatus.(CN:201510437893:A)

13. Luo An;Liu Jiping;Zhang Fuhao;Wang Yong. Semantic matching method for heterogeneous spatial information service classification based on concept lattice(CN:201510050509:A)

14. Luo An; Liu Jiping; Wang Yong; Zhang Fuhao; Wang Liang; Dong Chun. Semanteme based geographical label content safe checking method and device(CN:201410241021:A)

15. Tao Kunwang;Liu Jiping;Zhang Zhang;Hu Lujin. Computing method of diffusion of radionuclides.(CN:201310385204:A)

Honors and Awards

◆ Honors

1. National high-level scientific and technological innovation talent
2. Young and middle-aged leading talent of "Innovative Talent Promotion Program"
3. The national-level person selected of "Hundreds, Thousands and Ten-thousands of Talents Project In New Century "
4. The 10th China Youth Science and Technology Award

◆ Awards

1. The First National Geographic Conditions Survey Atlas, 2020, Pei Xiu Gold Award of National Excellent map Works, National level, ranked the first
2. Key Technologies of National e-government Collaborative Space Decision-making Service, 2016, Second Prize of National Science and Technology Progress Award, National level, ranked the first
3. National Mesoscale Geo-information Engineering and Spatial Assistant Decision Making, 2002, Second Prize of National Science and Technology Progress Award, National level, ranked the forth
4. Internet Geospatial Information Detection, Discovery and Early Warning Technology, 2018, Surveying and mapping Technology Progress Grand Prize, provincial and ministerial level, ranked the first
5. Key Technologies of e-government Geographic Information Active Service oriented to comprehensive decision-making, 2015, Surveying and mapping Technology Progress Grand Prize, provincial and ministerial level, ranked the first
6. Research and Application of Key Technologies for Perception of Urban Infrastructure Risks, Spatiotemporal Fusion, and Dynamic Evaluation, 2022, Special Prize of China Business Federation Science and Technology Award, provincial and ministerial level, ranked the second
7. Key Technology of National important geographical situation Monitoring and Analysis, 2017, Special Prize of Geographic Information Technology Progress Award, provincial and ministerial level, ranked the second
8. Theoretical innovation and technology application of digital mapping in the era of all-media, 2022, Special Prize of Geographic Information Technology Progress Award, provincial and ministerial level, ranked the forth
9. Demonstration of mapping assurance for spatially assisted decision making in e-government, 2013, First Prize of Surveying and Mapping Science and Technology Progress, Provincial and ministerial level, ranked the first
10. Geographic information platform construction for public emergency services, 2011, First Prize of Surveying and Mapping Science and Technology Progress, Provincial and ministerial level, ranked the first
11. Research and Application of Key Technologies for geomorphic Type Classification and Precise Division, 2017, First Prize of Surveying and Mapping Science and Technology Progress, Provincial and ministerial level, ranked the third
12. Key Technologies and Applications of the National Western Mapping Project, 2013,

Surveying and mapping Technology Progress Grand Prize, provincial and ministerial level, ranked the tenth

Social Service

- ◆ Member of Commission on Theoretical Cartography, International Cartographic Association, 2011-2015
- ◆ Director of National Network of Surveying and Mapping Information Branch of Chinese Society for Geodesy, Photogrammetry and Cartography, 2014-2022
- ◆ Director of the E-government Information Commission of China Association for Geographic Information Society, 2008-2016
- ◆ Chairman, ICA Commission on Cartography in Early Warning and Crisis Management, 2019-2023
- ◆ Special Researcher of Henan Province, 2018-2023
- ◆ Chairman, Real 3D Commission of Chinese Society for Geodesy, Photogrammetry and Cartography, 2022-2026
- ◆ Vice Chairman, Software Commission of China Geographic Information Industry Association, 2022-2026