

Lizhao Wang

Email: lzwang@terpmail.umd.edu

Ph.D. student in the Department of Civil and Environmental Engineering
University of Maryland, College Park, MD, 20742

Education

2011-2014	Master of Cartography and Geographic Information Systems in School of Geography, Beijing Normal University, China
2004-2008	Bachelor of Geographic Information Systems in School of Geography, Beijing Normal University, China

Employment History

2015-2016	Research & Development Engineer Beijing Piesat Information Technology Co., Ltd <i>Developed modules for remote sensing software in C++. These modules include radiation calibration, atmosphere correction, noise reduction, retrieval of land surface parameters and change detection.</i>
2014-2015	Software Engineer (ASP.NET) Beijing Research Institute of Automation for Machinery Industry <i>Developed Manufacturing Execution Systems with ASP.NET. This work includes webpage design and database management for managing and monitoring intermittent manufacturing process.</i>
2009-2011	Research Assistant Global Land Surface Satellite (GLASS) Program Group at Beijing Normal University <i>Worked on developing and producing GLASS albedo products. GLASS is a program to provide global land key parameters including albedo, leaf area index, emissivity, shortwave radiation, and photosynthetically active radiation. I developed tools to manage, read, re-project, subset and merge GLASS products; developed I/O module for albedo algorithm; transplanted and debugged algorithms in a distributed computing Linux system and produced and validated GLASS albedo products with ground measurements and MODIS products and wrote the user manual for GLASS albedo products.</i>

Publications

- [1] **L. Wang**, X. Zheng, and L. Sun. "Validation of GLASS albedo product through Landsat TM data and ground measurements." *J Remote Sens* 18.003 (2014): 547-558.
- [2] **L. Wang**, J. Peng, S. Liu, Q. Liu, Y. Li and X. Liang. "Assessment of harm degree of Crofton weeds invasion in southwest China with NDVI." *Geoinformatics, 20th International Conference on, Hong Kong, China, IEEE* (2012): 1-5.
- [3] Q. Liu, **L. Wang**, Y. Qu, N. Liu, S. Liu, H. Tang and S. Liang. "Preliminary evaluation of the long-term GLASS albedo product." *International Journal of Digital Earth* 6.sup1 (2013): 69-95.
- [4] J. Peng, W. Fan, X. Xu, **L. Wang**, Q. Liu, J. Li and P. Zhao. "Estimating Crop Albedo in application of a Physical Model based on the Law of Energy Conservation and Spectral Invariants." *Remote Sensing* 7.11 (2015): 15536-15560.
- [5] J. Peng, Q. Liu, **L. Wang**, Q. Liu, W. Fan, M. Lu and J. Wen. "Characterizing the Pixel Footprint of Satellite Albedo Products Derived from MODIS Reflectance in the Heihe River Basin, China." *Remote Sensing* 7.6 (2015): 6886-6907.
- [6] N. Liu, Q. Liu, **L. Wang**, S. Liang, J. Wen, Y. Qu and S. Liu. "A statistics-based temporal filter algorithm to map spatiotemporally continuous shortwave albedo from MODIS data." *Hydrology and Earth System Sciences* 17.6 (2013): 2121.
- [7] Y. Qu, Q. Liu, S. Liang, **L. Wang**, N. Liu and S. Liu. "Direct-estimation algorithm for mapping daily land-surface broadband albedo from MODIS data." *IEEE Transactions on Geoscience and Remote Sensing* 52.2 (2014): 907-919.
- [8] J. Peng, Q. Liu, J. Wen, Q. Liu, Y. Tang, **L. Wang**, B. Dou, D. You, C. Sun, X. Zhao and Y. Feng. "Multi-scale validation strategy for satellite albedo products and its uncertainty analysis." *Science China Earth Sciences* 58.4 (2015): 573-588.

Services and Extracurricular Activity

2011-2013	Teaching assistant for "Database System Concepts" in School of Geography at Beijing Normal University.
2012-2013	Teaching assistant for "Summer session course of land surface parameters retrieval theory and method" at Beijing Normal University.

Fellowships and Awards

2017	Dean's Fellowship, University of Maryland.
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