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研究方向：植被高光谱遥感

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教育经历：

2004-2007 PhD 日本东京大学 生物环境工学

2003-2004 Research Student 日本东京大学 生物环境工学

1999-2002 MSc 东北师范大学 自然地理

1995-1999 BA 东北师范大学 地理教育

工作经历：

2016至今　东北师范大学 地理科学学院 教授

2008-2016 东北师范大学 地理科学学院 副教授

2007-2008 博士后　日本农业环境技术研究所

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5268 Renmin Street, Department of Geographic Information Science, School of Geographical Sciences, Northeast Normal University.

研究经历与主要研究方向：

　多年来从事高光谱遥感影像分类、植被参量遥感反演和估算的相关研究。目前任地理科学学院地理信息科学系主任。主要的研究兴趣是植被反射光谱特性、植被生化物质含量的遥感估算、植被指数的开发等。

已发表论文：

(1) Shan Lu, F. Lu, W. You, Z. Wang, Y. Liu, K. Omasa*. A robust vegetation index for remotely assessing chlorophyll content of dorsiventral

leaves across several species in different seasons. Plant Methods. 2018 (14) 1-15

(2) X. Gao, Shan Lu*. The relationship of the leaf surface wettability and degree of reflectance polarization. Spectroscopy and Spectral Analysis, 2018 (38) 923-928.

(3)W. You, Z. Wang, F. Lu, Y. Zhao, Shan Lu*, Spectral indices to assess Carotenoid/Chlorophyll ratio from adaxial and abaxial leaf reflectance. Spectroscopy Letters. 2017 (50) 387-393

(4)Y. Liu, Y. Zhao, H. Liu, Shan Lu*. Analysis on impact factors of thermal polarized radiation characteristics of the soil. Spectroscopy and Spectral Analysis, 2016 (6) 1813-1817.

(5) Shan Lu, X. Lu, W. Zhao, Y. Liu, Z. Wang, K. Omasa*. Comparing vegetation indices for remote chlorophyll measurement of white poplar and Chinese elm leaves with different adaxial and abaxial surfaces. Journal of Experimental Botany 2015 (66), 5625–5637

(6) X. Lu, Shan Lu* Effects of adaxial and abaxial surface on the estimation of leaf chlorophyll content using hyperspectral vegetation indices. International Journal of Remote sensing 2015 (36), 1447-1469

(7) Shan Lu, S. Inoue*, H. Shibaike, S. Kawashima, S. Yonemura, M. Du. Detection potential of maize pollen release stage by using vegetation indices and red edge obtained from canopy reflectance in visible and NIR region. Journal of Agricultural Meteorology 2015 (71), 153-160

(8) Z. Sun, Y. Lv, Shan Lu*. An assessment of the bidirectional reflectance models basing on laboratory experiment of natural particulate surfaces. Journal of Quantitative Spectroscopy & Radiative Transfer 2015 (136), 102-119

（9）T. Yang，W. Zhao，Z. Wang，X, Lu，Shan Lu* Changes of Cropping System in China Based on Remotely Sensed NDVI data. Scientia Agricultural Sinica 2015,（48），1915-1925

(10) H. Ge，Shan Lu* Y. Zhao. Effects of leaf hair on leaf reflectance and hyperspectral vegetation indices. Spectroscopy and Spectral Analysis, 2012 (32) 439-444.

(11) Shan Lu, Y. Shimizu, J. Ishii, I. Washitani, K. Omasa* Identification of invasive vegetation using hyperspectral imagery in the shore of the Kinu River, Japan. Journal of Agricultural Meteorology. 2011 (67) 85-88

(12) Shan Lu, Y. Shimizu, J. Ishii, S. Funakoshi, I. Washitani, K. Omasa*. Estimation of abundance and distribution of moist tall grasses from hyperspectral imagery in Watarase wetland, Japan. ISPRS Journal of Photogrammetry and Remote Sensing. 2009（64）674-682

(13) J. Ishii*, Shan Lu, Y. Shimizu, S. Funakoshi, I. Washitani, K. Omasa. Mapping potential habitats of threatened plant species in a moist tall grassland using hyperspectral imagery. Biodiversity and conservation. 2009（18）2521-2535.

(14) Shan Lu, K. Oki, Y. Shimizu and K. Omasa*. Comparison between several feature extraction/classification methods for mapping complicated agricultural land use patches using airborne hyperspectral data. International Journal of Remote sensing. 2007(28): 963-984

（15）Shan Lu, S. Funakoshi, Y. Shimizu, J. Ishii, A.M. de Asis, M. Ajima, I. Washitani and K. Omasa*. Estimation of plant abundance and distribution of Miscanthus sacchariflorus and Phragmites australis using matched filtering of hyperspectral image. Eco-Engineering. 2006 (18):65-70.

(16) K. Oki*, Shan Lu, T. Saruwatari, T. Suhama and K. Omasa. Evaluation of supervised classification algorithms for identifying crops using airborne-hyperspectral data. International Journal of Remote Sensing. 2006 (10):1993-2002.

承担的科研项目：

1. 吉林省科技厅，20180101313JC，异面叶植物水分状况的高光谱遥感估算， 2018/01-2020/12，12.0万元，在研，主持。
2. 吉林省教育厅，【2014】B038， 叶片茸毛对利用高光谱指数进行生化物质含量反演的影响，2014/01-2016/12，5.0万元，已结题，主持。
3. 国家自然科学基金国际合作项目，41210304039，基于和谐东亚的地理学合作与发展国际学术研讨会，2012/06-2012/12，4.0万元，已结题，主持。
4. 国家自然科学基金青年项目，41001258，高光谱遥感反演植物生化物质含量的叶片结构依存性研究，2011/01-2013/12，18.0万元，已结题，主持。

5. 教育部留学回国人员科研启动基金，遥感技术用于积雪监测，2010/09 - 2013/08，4.0万元，已结题，主持。

社会兼职

获奖情况 (数据来源：科学技术处、社会科学处)

教学信息 (数据来源：教务处)

科研信息

信息维护