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Research Interests

- Global climate change
- Agricultural remote sensing
- Land surface temperature and emissivity
- Soil moisture
- Water vapor content

Publication

A combined Terra and Aqua MODIS land surface temperature and meteorological station data product for China from 2003-2017, Earth Syst. Sci. Data, 2020, DOI:10.5194/essd-12-2555-2020

Driving forces of land surface temperature anomalous changes in North America in 2002 - 2018, Scientific Reports, 2020, DOI:10.1038/s41598-020-63701-5

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Estimation of Broadband Emissivity (8-12um) from ASTER Data by Using RM-NN, Optics Express, 2012, DOI:10.1364/OE.20.020096

Retrieval of Land Surface Temperature and Emissivity from ASTER1B data Using Dynamic Learning Neural Network, International Journal of Remote Sensing, 2011, DOI: 10.1080/01431161.2010.501043

Near-Surface Air Temperature Estimation From ASTER Data Using Neural Network, International Journal of Remote Sensing, 2008, DOI:10.1080/01431160802192160

A Neural Network Technique for Separating Land Surface Emissivity and Temperature from ASTER Imagery, IEEE Trans. Geosci. Remote Sensing, 2008, DOI:10.1109/TGRS.2007.907333

An RM-NN algorithm for retrieving land surface temperature and emissivity from EOS/MODIS data, Journal of Geophysical Research-atmosphere, 2007, DOI: 10.1029/2007JD008428

A Method for Retrieving Soil Moisture in Tibet Region By Utilizing Microwave Index from TRMM/TMI Data, International Journal of Remote Sensing, 2005, DOI: 10.1080/01431160500044713

A Practical Split-Window Algorithm for Retrieving Land Surface Temperature from MODIS Data, Agricultural and Forest Meteorology, 2008, DOI:10.1016/j.agrformet.2008.04.008

Research on Retrieval Algorithm of Surface Temperature and Soil Moisture Based on Thermal Infrared and Microwave Data, China Agricultural Science and Technology Press, 2007, ISBN: 9787802334687

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