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### Research Interests

- Satellite soil moisture and evapotranspiration retrieval
- Agricultural drought monitoring
- Quantification of irrigation water using remote sensing data

### Publication

**A practical approach for deriving all-weather soil moisture content using combined satellite and meteorological data**, ISPRS Journal of Photogrammetry and Remote Sensing, 2017, DOI:10.1016/j.isprsjprs.2017.07.013

**Determination of all-sky surface soil moisture at fine spatial resolution synergistically using optical/thermal infrared and microwave measurements**, Journal of Hydrology, 2019, DOI:10.1016/j.jhydrol.2019.124167

**A method for deriving all-sky evapotranspiration from the synergistic use of remotely sensed images and meteorological data**, Journal of Geophysical Research-Atmosphere, 2017, DOI:10.1002/2017JD027880

**A practical algorithm for estimating surface soil moisture using combined optical and thermal**



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**infrared data**, International Journal of Applied Earth Observation and Geoinformation, 2016,  
DOI:10.1016/j.jag.2016.07.004

**Bare surface soil moisture retrieval from the synergistic use of optical and thermal infrared data**, International Journal of Remote Sensing, 2014, DOI:10.1080/01431161.2013.875237

**Generation of continuous surface soil moisture dataset using combined optical and thermal infrared images**, Hydrological Processes, 2017, DOI:10.1002/hyp.11113

**A method for deriving relative humidity from MODIS data under all-sky conditions**, IEEE Transactions on Geoscience and Remote Sensing, 2020, DOI:10.1109/TGRS.2020.3036248

**Global assessments of two blended microwave soil moisture products CCI and SMOPS with in-situ measurements and reanalysis data**, International Journal of Applied Earth Observation and Geoinformation, 2021, DOI:10.1016/j.jag.2020.102234

**Evapotranspiration retrieval under different aridity conditions over North American grasslands**, IEEE Transactions on Geoscience and Remote Sensing, 2020, DOI:10.1109/TGRS.2020.2980453

**First results of all-weather soil moisture retrieval from an optical/thermal infrared remote sensing-based operational system in China**, International Journal of Remote Sensing, 2019, DOI:10.1080/01431161.2018.1468119