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Research Interests

- **Multi satellite data fusion**
- **Land surface temperature reconstruction and disaggregation**
- **Mapping crop water use and drought**
- **Crop classification**
- **Crop yield prediction**

Publication

Reconstructing daily 30 m NDVI over complex agricultural landscapes using a crop reference curve approach,Renote Sensing of Environment,2020, DOI:10.1016/j.rse.2020.112156

Assessing Drought Conditions in Cloudy Regions Using Reconstructed Land Surface Temperature,Journal of Meteorological Research,2020, DOI:10.1007/s13351-020-9136-4

Investigating water use over the Choptank River Watershed using a multisatellite data fusion approach,Water Resources Research,2017, DOI:10.1002/2017WR020700

Reconstructing daily clear-sky land surface temperature for cloudy regions from MODIS data,Computers & Geosciences, 2017, DOI:10.1016/j.cageo.2017.04.007

Daily Mapping of 30 m LAI and NDVI for Grape Yield Prediction in California Vineyards,Renote Sensing,2017,DOI: 10.3390/rs9040317

Improving a Penman-Monteith evapotranspiration model by incorporating soil moisture control on soil evaporation in semi-arid area,International Journal of Digital Earth,2013, DOI:10.1080/17538947.2013.783635

Monitoring surface soil moisture status based on remotely sensed surface temperature and vegetation index information,Agricultural and Forest Meteorology, 2012, DOI: 10.1016/j.agrformet.2012.07.015

Sharpening ECOSTRESS and VIIRS land surface temperature using harmonized Landsat-Sentinel surface reflectances,Renote Sensing of Environment,2020,DOI:10.1016/j.rse.2020.112055

Investigating impacts of drought and disturbance on evapotranspiration over a forested landscape in North Carolina, USA using high spatiotemporal resolution remotely sensed data ,Renote Sensing of Environment,2020,DOI:10.1016/j.rse.2018.12.017

Evapotranspiration Partitioning at Field Scales Using TSEB and Multi-Satellite Data Fusion in The Middle Reaches of Heihe River Basin, Northwest China , Renote Sensing, 2020, DOI: 10.3390/rs12193223