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Research Interests

•Quantitative estimation of crop traits from remote sensing (satellite, UAV, IoT and phenomobile)

- •Plant phenotyping
- Data fusion
- •Precision managements of cropland

Publication

A double swath configuration for improving throughput and accuracy of trait estimate from UAV images, Plant Phenomics, 2021, DOI: 10.34133/2021/9892647

Impact of the reproductive organs on crop BRDF as observed from a UAV, Remote Sensing of Environment, 2021, DOI: 10.1016/j.rse.2021.112433

Critical analysis of methods to estimate the fraction of absorbed or intercepted photosynthetically active radiation from ground measurements: Application to rice crops, Agricultural and Forest Meteorology, 2021, DOI: 10.1016/j.agrformet.2020.108273

Combining hectometric and decametric satellite observations to provide near real time decametric FAPAR product, Remote Sensing of Environment,2017,DOI:



10.1016/j.rse.2017.08.018

A Generic Algorithm to Estimate LAI, FAPAR and FCOVER Variables from SPOT4 HRVIR and Landsat Sensors: Evaluation of the Consistency and Comparison with Ground Measurements, Remote Sensing, 2015, DOI: 10.3390/rs71115494

Estimation of direct, diffuse, and total FAPARs from Landsat surface reflectance data and ground-based estimates over six FLUXNET sites, Journal of Geophysical Research-Biogeosciences, 2015, DOI:10.1002/2014JG002754

Crop specific algorithms trained over ground measurements provide the best performance for GAI and fAPAR estimates from Landsat-8 observations, Remote Sensing of Environment, 2021, DOI: 10.1016/j.rse.2022.113085

Validation of global moderate resolution leaf area index (LAI) products over croplands in northeastern China, Remote Sensing of Environment, 2019, DOI: 10.1016/j.rse.2019.111377

Estimation of the directional and whole apparent clumping index (ACI) from indirect optical measurements, ISPRS Journal of Photogrammetry and Remote Sensing, 2018, DOI: 10.1016/j.isprsjprs.2018.06.022

Seasonal variation of leaf area index (LAI) over paddy rice fields in NE China: Intercomparison of destructive sampling, LAI-2200, digital hemispherical photography (DHP), and AccuPAR methods, Agricultural and Forest Meteorology, 2014, DOI: 10.1016/j.agrformet.2014.08.005