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Research Interests

- Spatial sampling technique for crop acreage estimation
- Crop monitoring by synthetic aperture radar remote sensing
- Crop classification by hyperspectral remote sensing
- Cultivated land quality monitoring and assessment by remote sensing

Publication

Dryland Crop Classification Combining Multitype Features and Multitemporal Quad-Polarimetric RADARSAT-2 Imagery in Hebei Plain, China, Sensors, 2021, DOI: 10.3390/s21020332

An optimized two-stage spatial sampling scheme for winter wheat acreage estimation using remotely sensed imagery, International Journal of Remote Sensing, 2019, DOI: 10.1080/01431161.2018.1516321

Assessment of the X- and C-Band Polarimetric SAR Data for Plastic-Mulched Farmland Classification, Remote Sensing, 2019, DOI:10.3390/rs11060660



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Design of a spatial sampling scheme considering the spatial autocorrelation of crop acreage included in the sampling units, Journal of Integrative Agriculture, 2018, DOI: 10.1016/S2095-3119(17)61882-3

Design of the Spatial Sampling Scheme for stimating the Cultivation Area of Garlic and Onion Using Satellite-Based and Unmanned Aerial Vehicle Remotely Sensed Data,Korean Journal of Soil Science and Fertilizer,2018,DOI: 10.7745/KJSSF.2018.51.3.222

Estimation of winter wheat acreage via a combination of remotely sensed data and an optimized spatial sampling scheme,International Journal of Remote Sensing,2015, DOI:10.1080/01431161.2015.1093197

Optimization of spatial sampling schemes for maize acreage estimation ,Journal of Applied Remote Sensing,2015,DOI:10.1117/1.JRS.9.097092

Crop classification using polarimetric synthetic aperture radar imagery(CN),Beijing/China Agricultural Science and Technology Publishing & Media Ltd.,2020,ISBN:978-7-5116-5020-7

Spatial sampling methods taking into account the space effects existing in the samples for crop acreage estimation(CN),Beijing/China Agricultural Science and Technology Publishing & Media Ltd.,2019,ISBN:978-7-5116-4431-2

Spatialized samples selection and population inference for rural survey(CN),Beijing/China Agricultural Science and Technology Publishing & Media Ltd.,2018,ISBN:978-7-5116-3884-7