

Session E1 AgriFood System

Time: 10:10-12:04, 8th September

Room: 305B

	ZENG Yelu, China Agricultural University, China
Co-Chairs	PRAJAL Pradhan, University of Groningen, Netherlands
	LI Wenjuan, Institute of Agricultural Resources and Regional Planning, China
10:10-10:20	The Compound Effects of Climate Change Trends and Extreme Drought/Flooding Disasters on Food Security ZHANG Miao (Aerospace Information Research Institute, Chinese Academy of Sciences, China)
10:20-10:30	Remote sensing estimation of above-ground biomass of winter wheat by coupling digital growth period: mechanism and transferability applications LI Zhenhai (Shandong University of Science and Technology, China)
10:30-10:40	Inversion of total photosynthetic area index of oilseed rape based on a multilayer microwave scattering semiempirical model adapted to each phenological stage WU Shangrong (Institute of Agricultural Resources and Regional Planning, CAAS, China)
10:40-10:50	Research on Intelligent Phenotypic Analysis Algorithm of Rice Population Canopy Structure Driven by Synthetic Data GAO Yangmingrui (Nanjing Agricultural University, China)
10:50-11:00	Reducing water productivity gap by optimizing irrigation regime for winter wheat-summer maize system in the North China Plain WANG Bo (Institute of Agricultural Resources and Regional Planning, CAAS, China)
11:01-11:08	Integrating UAV-Derived Enhanced Disease Detection Index and Texture Features for Monitoring Southern Corn Rust Severity WEI Yanan (China Agricultural University, China)
11:09-11:16	Inversion of the High-Resolution Mechanically Harvested Cotton Defoliation Effect Using GAN-Based Super-Resolution Reconstructed RGB Satellite Images MA Yiru (Shihezi University, China)
11:17-11:24	Plant Height Extraction from 3D Reconstructed Point Clouds in Maize Fields and Inversion Based on Crop Spectral Features LI Ke (China Agricultural University, China)
11:25-11:32	Mapping of long-term crops in the Northeast Black Soil Region Based on multi-source sample fusion

	BAI Chaoyang (Hebei GEO University, China)
11:33-11:40	Impact of rural-urban land interaction on food security in the Beijing-Tianjin-Hebei region LV Keyi (Aerospace Information Research Institute, Chinese Academy of Sciences, China)
11:41-11:48	An Identification Method for Typical Maize Planting Areas Based on Spatio-temporal Feature Optimization JIANG Yuhan (China Agricultural University, China)
11:49-11:56	Research Progress on Disaster Resistance Capacity of Well-facilitated Farmland Construction MAO Yiru (Aerospace Information Research Institute, Chinese Academy of Sciences, China)
11:57-12:04	Synergy Use of Decametric Satellite Imageries and UAV Observations for Continuous Monitoring of Paddy Rice NDVI REN Zihan (Institute of Agricultural Resources and Regional Planning, CAAS, China)