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Spectral simulation and remote sensing method of agricultural information-Application of south China in agriculture and litchi orchard

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Different from national typical matter spectral library of China, the featured crop spectral library in south China was built including litchi, banana, winter crop (potato, chili, etc). Spectral and remote sensing models and Applications were developed for inversion of land surface temperature, surface soil moisture. We built the spectral models (350-2500nm) of leave chlorophyll a, soil organic matter, N and P for precision fertilizing in litchi orchard. Besides, a new remote sensing method was developed for estimating the planting area of winter potato, combining the NDVI spectra and spectral angle method. The research achievements had been widely applied in crop planting area estimation, drought & cold disaster monitoring and litchi fertilizer application with notable economic and social benefits.

Biography

Shui-sen Chen has completed his PhD from Institute of Remote Sensing Application, Chinese Academy of Sciences, China. He did his Visiting Scholar studies from FAMU-FSU College of Engineering and Senior Visiting Fellow studies from the College of Earth, Oceanic and Atmospheric Sciences at Oregon State University. He is the Deputy Director, Open Laboratory of Geospatial Information Technology and Application of Guangdong Province, Deputy Director of academic committee & director of Department of Remote Sensing & GIS Application Research, Guangzhou Institute of Geography, Guangzhou China. He has published more than 80 papers in reputed journals and has been serving as an editorial board member of Tropical Geography.

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