

LSGS, RCAIG & RILS RESEARCH SEMINAR

Transforming satellite measurements into information products for Earth system change research and decision support

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Dr. George Xian

Senior Research Scientist
Earth Resources Observation and Science Center, USA

ABSTRACT

As land surface changes due to anthropogenic developments and other natural disturbances, many critical aspects of the land system are impacted. Increasing concerns about how climate and global environmental change impact land systems and ecosystem sustainability have driven extensive research efforts to understand these complex interactions. Long-term Earth observations from satellites provide vital data to characterize and analyze land-cover and land-use change at different geographic scales. Remote sensing information can improve the understanding of the temporal and geographic dimensions of land change, the connections between climate and land change, and their combined impacts on human and natural systems. With advances in AI, big data collection, and model integration, a breakthrough in the investigation of the Earth system and its change is expected.

BIOGRAPHY

Dr. George Xian is a research physical scientist at the U.S. National Center for Earth Resources Observation and Science and has engaged in research on Earth observation and using satellite remote sensing.

He specializes in using remote sensing data to study national land cover and land-use change, as well as their impacts on climate and the environment. He has served as a science lead and taken charge of product management on projects including the National Land Cover, Land Change Monitoring and Assessment, Western Rangeland Mapping, National Urban Impervious Surface Mapping, and National Urban Heat Island Mapping. He also led the 5th and 6th United States National Climate Assessments to report on national land cover and land use change, human welfare, climate change, catastrophic weather, and social and environmental factors of variability. George has also served as editor-in-chief of Remote Sensing Applications: Society and Environment, served on the editorial boards of three other related journals, and organized special publications for four journals.

MODERATOR:

Prof. Qihao WENG
CHAIR PROFESSOR, LSGS
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