

**DEPARTMENT OF CHEMISTRY AND ENVIRONMENTAL SCIENCE**

**FALL 2017 GRAD SEMINAR SERIES**

**OPEN TO THE PUBLIC**

**DATE: WEDNESDAY, OCTOBER 11, 2017**

**WHERE: CENTRAL KING BUILDING - 204**

**TIME: 2:30 PM**

**Refreshments at 2:30 pm – Seminar at 2:45 pm**

**GUEST SPEAKER**

Huiran Jin, Ph.D.

Assistant Professor, Engineering Technology (NCE)

Department of Geographical Sciences

University of Maryland

College Park, Maryland

**TOPIC**

Monitoring of land cover/land use using multi-type remotely sensed data

**ABSTRACT**

Land cover and land use (LCLU) are fundamental attributes that link physical environments and human activities. Timely and accurate information on LCLU and LCLU change is fundamental to a wide range of environmental and socioeconomic studies and applications. In recent decades, remote sensing has been recognized as a major source of LCLU information. This presentation is a brief introduction to Dr. Jin's research into large-scale, long-term LCLU monitoring using multi-type and multi-temporal remotely sensed data, GIS techniques and quantitative analytics. The potential applicability of the maps created from remote sensing imagery to the assessment of the role of different factors in driving LCLU change will also be discussed

**BIOGRAPHY**

Huiran Jin comes to NJIT from the University of Maryland, where she is a Postdoctoral Research Associate in the Department of Geographical Sciences. Her research has focused on the advancement of geospatial analysis and modeling applications for the optimization of remote sensing endeavors, such as land cover/land use mapping, wetland inundation monitoring, urban growth detection, and crop growth modeling and yield estimation. Her research addresses some of the most pressing issues in understanding viable methods for improving the accuracy of advanced remote sensing techniques. In the past few years, Dr. Jin's work on decision-support algorithm development and large-volume data processing has been sponsored by the National Aeronautics and Space Administration (NASA), the National Oceanic and Atmospheric Administration (NOAA), the United States Department of Agriculture (USDA), and the United States Geological Survey (USGS). She has published her research in the most prestigious, high impact journals in the remote sensing field, including the *Remote Sensing of Environment* and the *ISPRS Journal of Photogrammetry and Remote Sensing*.

**Seminar Series Coordinators**

Dr. Yong Yan - [yong.yan@njit.edu](mailto:yong.yan@njit.edu)

Dr. Yuan Zhangwei - [yuanwei.zhang@njit.edu](mailto:yuanwei.zhang@njit.edu)