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Department of Civil and Environmental Engineering
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ENVIRONMENTAL ENGINEERING SPRING 2019 COLLOQUIUM
SERIES

Friday, March 8, 2019 • 12:15 PM
F.L. Castleman, Room 212

“Mapping Our Changing Planet in Near Real-time”

By

Zhe Zhu, PhD

Assistant Professor

Natural Resources of the Environment

University of Connecticut

Abstract:

Our planet is changing fast. Satellite remote sensing enables us to map the extent of different kinds of changing process at large scales. This talk will introduce algorithms designed for monitoring and characterizing land change in near real-time based on dense satellite time series. I will also introduce some of the current applications and future directions of these newly developed algorithms.

Bio:

Zhe Zhu is currently an Assistant Professor of Natural Resources of the Environment at the University of Connecticut. He obtained a B.E. in Remote Sensing and Photogrammetry from

Wuhan University (China) in 2006, and a Ph.D. degree in Geography from Boston University in 2013.

His research interests include remote sensing of urban, cloud, and forest, time series analysis, change detection, and land cover/land use classification. He has published more than 30 peer-reviewed papers in top remote sensing journals with approximately 4,000 citations. He has been a Principal, Co-Principal Investigator, or Collaborator on 7 grants from USGS, NASA, and Private Corporation (~\$9 M).

Recently, he is selected as the USGS-NASA Landsat Science Team Member (2018-2023) and EROS CalVal Center of Excellence Science Interface Panel (2018-2021). He is also the Associate Editor of *Remote Sensing of Environment* and on the Editorial Board of *PeerJ*.