



RONALD T. EGUCHI
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Friday, April 6 at 1:00 p.m.
117 ATLSS Dr., Bethlehem, PA, Room B101
ATLSS Engineering Research Center

Measuring, Monitoring and Evaluating Community Resilience using Remote Sensing Technologies

- Remote sensing has been used extensively to explain the extent of impacts caused by disasters. Through high-resolution optical imagery and active sensors, remote sensing technologies have demonstrated significant efficacies in quantifying post-disaster damage, monitoring recovery and reconstruction progress after significant disasters, and more recently, in developing important exposure information on our urban infrastructure.
- Remote sensing technologies are also playing a major role in helping to understand the vulnerability and resilience of many emerging economies around the world. NASA has sponsored focused research on how to use earth observation (EO) imagery to delineate areas of urban development as well as the locations of critical infrastructure. This information has allowed analysts to quantify the expected damage or loss to communities from a wide range of natural hazards. These risk profiles are now allowing in-country policy makers to consider in a consistent and systematic way how best to address these risks for both urban and rural exposures.
- This presentation will show through examples how remote sensing technologies have changed the way in which we measure, monitor and evaluate community resilience to natural hazards worldwide. We will also discuss that even with this demonstrable progress, remote sensing technologies still have the potential to be even more valuable in enhancing resilience.

Brief Bio

Mr. Eguchi is President and CEO of ImageCat, Inc., an international risk management company that supports the global risk and catastrophe management needs of the insurance industry, governments and NGOs. Mr. Eguchi has over 30 years of experience in risk analysis and risk reduction studies. He currently serves or has served on several editorial boards including EERI's Journal SPECTRA. He was recognized by EERI as the 2008 Distinguished Lecturer. He currently chairs the Technical Committee on Advances in Information Technologies for the SEI Division of ASCE. He has authored over 300 publications. He was awarded the 2017 Civil & Environmental Engineering Department Distinguished Alumnus Award from UCLA.

Refreshment will be served!