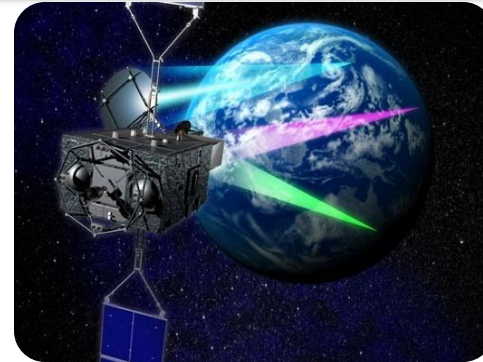
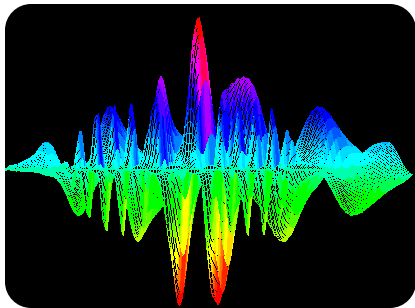


# New Frontier of Education and Research in Wind Engineering

## Major Activities in Global COE Program

### OBJECTIVE OF THE CURRENT RESEARCH

1. Identification of Wind Damaged Building Structures from satellite and aerial images using the latest cutting edge tools in feature extraction like **Wavelet Feature** extraction and pattern recognition tools like Artificial Neural Network, Support Vector Machine etc.
2. **Automating** the entire process for speedy identification of disaster areas enabling faster relief works
3. Relative ability of **post disaster images alone** compared to use of pre and post disaster images in identifying the wind disaster areas



#### *Name and Stand*

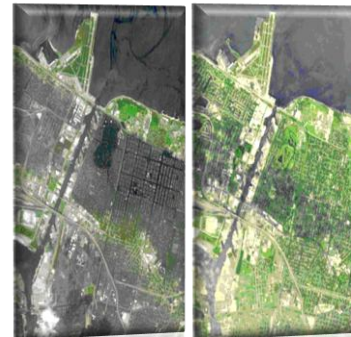
Sudha Radhika  
Global COE PhD student  
*Hometown*  
Changanassery, Kerala,  
India

#### *Profile* *Study*

I earned M.Tech degree in Power Electronic with Gold Medal from Amrita University, India, in 2007, B.Tech in Electrical and Electronics Engineering with Honors from N.S.S Engineering College, Calicut University, India

#### *Work*

Worked as a lecturer for 4 years in Engineering College in Kerala, India.



## Journals and Publications

1. Author of the International paper “*Precise wavelet for current signature in 3phase IM*” in Elsevier journal of Expert System with Application, 2009.
2. Sudha Radhika, Yukio Tamura, Masahiro Matsui, Akihito Yoshida (2010), “*Using Wavelets as an Effective Alternative Tool for Wind Disaster Detection from Satellite Images*”, CWE2010, North Carolina, USA.

*Life Member of ISTE (Indian Society for Technical Education)*

