

Thammasat University

THAILAND



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1) what is your research interest?

- → Applications of Geo-Informatics (Remote Sensing, Geographic Information System and Global Positioning System) for land cover mapping and change analysis
 - o water-related research interests: floods and tsunamis (inundated area mapping, changes of mangrove forest and beaches pre and pots- the 2004 Indian Ocean Tsunami, new settlement of the tsunami affected villages....)
- ☐ Integration of Geo-Informatics and other technologies (crop model, flux sensors, networking, database,...) for drought monitoring and climate change impact assessment on rice production in Northeastern, Thailand.

2) What are the barriers to doing your research?

- ☐ Funding Trends → Integration of technologies / field of studies → need collaborators/a good team work
- □ Depending on various (high) technologies (flux sensors, networking, computer models, satellite data) → need good facilities and have to consult more experts/advisors → need a big research budget
- ☐ Lack of good satellite data in some cases
 - o Need cloud free data in the focused period; flooding occurs in rainy/cloudy season
 - Need the right time data: high temporal always has low spatial resolution / high resolution or RADAR (multi-temporal/pre- and post-event) always has low temporal
- □ A limited time frame (most of the research expense grants for 1-2 year) → too short to implement the research outcomes (esp. monitoring studies, change impacts...) to end users/policy making/publication and distribution

3) what do you hope to learn or take away from this workshop?

- ☐ To enhance my understanding about the Cyberinfrastructure and Water Resources in the Lower Mekong Region
- ☐ To learn about the region's ability to respond to the impacts of climate change from the US and Lower Mekong researchers
- ☐ To take away new inspiration for my research in the future (water related research) from this workshop/new friends (collaboration opportunities)