

Hui Ping Tsai

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EDUCATION

- **Ph.D.** in Geography, University of Florida, 2008–2012.
Dissertation: *A spatial-temporal analysis of vegetation change, land cover change and health impacts in Florida*
- **M.S.** in Bioenvironmental Systems Engineering, National Taiwan University, 2002–2004.
Thesis: *Discussion on Guidelines for Ecological Engineering Methods*
- **B.F.A.** in Landscape Architecture, FuJen Catholic University, 1997–2001.

RESEARCH INTERESTS

Environmental change and remote sensing, Image processing, Spectral analysis and application

PROFESSIONAL EXPERIENCE

- **Assistant Professor**, Dept. Civil Engineering, National Chung Hsing University, Taiwan, 2018-present
- **Post-Doc**, Dept. Civil Engineering and Center for Environmental Restoration and Disaster Reduction, National Chung Hsing University, Taiwan, 2014-2018
Project 1: An application of new remote sensing technique on monitoring/evaluating the landslide area and the landslide dam
Project 2: Integration and sharing of remote sensing and on-site experiment data on landslide disasters
Project 3: Adjusting climate change adaptation strategies for upstream watershed using 30 years remote sensed data (PI)
- **Assistant Engineer**, Taiwan International Institute for Water Resource Education, Taiwan, 2004–2006.
Project: River corridor and habitat restoration-principles and practices

TEACHING EXPERIENCE

- **Lecturer**, Change and Sustainable Development in Environment and Ecology, National Chung Hsing University, Spring 2016.
Average evaluation: 4.1/5
- **Lecturer**, Geography for a Changing World, University of Florida, Spring 2009-2011. Average evaluation: 4.3/5
- **Lecturer**, Physical Geography Lab, University of Florida, Fall 2009-2012. Average evaluation: 4.5/5

PUBLICATIONS

1. Yang, Ming-Der, Su-Chin Chen, and **Hui Ping Tsai***. A Long-Term Vegetation Recovery Estimation for Mt. Jou-Jou Using Multi-Date SPOT 1, 2, and 4 Images. *Remote Sens.* **2017**, 9, 9, 893. (SCI , IF 3.2 , Ranking 5/28).
2. Yang, M. D., Huang, K. S., Kuo, Y. H., Lin, L. M., **Tsai, H. P.*** Spatial and spectral hybrid image classification for rice-lodging assessment using UAV imagery. *Remote Sens.* **2017**, 9, 583. (SCI , IF 3.2 , Ranking 5/28).
3. Ko, Y. L.; **Tsai, H. P.**; Lin, K. Y.; Chen, Y. C.; Yang, H. Reusable Macroporous Photonic Crystal-Based Ethanol Vapor Detectors by Doctor Blade Coating. *J. Colloid Interface Sci.* **2017**, 487, 360-369. (SCI , IF 4.2 , Ranking 11/123)
4. **Tsai, H. P.**; Yang, M. D. Relating vegetation dynamics to climate variables in Taiwan using 1982-2012 NDVI3g data. *IEEE J. Sel. Topics Appl. Earth Observ. in Remote Sens.* **2016**, 9, 1624-1639. (SCI , IF 3.0 , Ranking 61/255)
5. **Tsai, H. P.**; Lin, Y.; Yang, M. D. Exploring long term spatial vegetation trends in Taiwan from AVHRR NDVI3g dataset using RDA and HCA analyses. *Remote Sens.* **2016**, 8, 290. (SCI , IF 3.2 , Ranking 5/28)
6. Yang, M. D.; Huang, K. S.; Yang, Y. F.; Lu, L. Y.; Feng, Z. Y.; **Tsai, H. P.*** Hyperspectral Image Classification using Fast and Adaptive Bidimensional Empirical Mode Decomposition with Minimum Noise Fraction. *IEEE Geosci. Remote Sens. Lett.* **2016**, 1-5. (SCI , IF 2.2 , Ranking 56/257)
7. Lin, C. Y.; Lin, K. Y.; **Tsai, H. P.**; He, Y. X.; Yang, H. Self-Assembled Dual-Sided Hemispherical Nano-Dimple-Structured Broadband Antireflection Coatings. *Appl. Phys. Lett.* **2016**, 109, 221601. (SCI , IF 3.1 , Ranking 34/247)
8. Tsao, K.; **Tsai, H. P.**; Lin, K.A.; He, Y.; Yang, H. Self-Assembled Hierarchical Arrays for Colored Retroreflective Coatings. *Langmuir* **2016**. (SCI , IF 4.1 , Ranking 41/546)
9. **Tsai, H. P.**; Southworth, J.; Waylen, P. Spatial Persistence and Temporal Patterns in Vegetation Cover Across Florida, 1982–2006. *Phys. Geogr.* **2014**, 35, 151-180. (SCI , IF 1.0 , Ranking 150/184)
10. Waylen, P.; Southworth, J.; Gibbes, C.; **Tsai, H. P.** Time Series Analysis of Land Cover Change: Developing Statistical Tools to Determine Significance of Land Cover Changes in Persistence Analyses. *Remote Sens.* **2014**, 6, 4473-4497. (SCI , IF 3.0 , Ranking 5/28)