

Curriculum Vitae

Yishuo Huang

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EDUCATION

- Ph.D., University of Florida, USA, 1996
- M.S., University of Wisconsin – Madison, USA, 1989
- B.S., Feng Chia University, Taiwan, 1987

EMPLOYMENT

- Associate Professor, Department of Civil and Construction Engineering, Chaoyang University of Technology, Taiwan, 2017 – present.
- Assistant Professor, Department of Civil and Construction Engineering, Chaoyang University of Technology, Taiwan, 2000 – 2017.
- Assistant Professor, Department of Civil Engineering, Chien Hsin University of Technology and Science, Taiwan, 1997-2000.
- Post Doctor, Hydrotech Research Institute, Taiwan University, Taiwan, 1996-1997.
- Research Associate, University of Florida, USA, 1992-1996.
- Engineer, Sinotech Engineering Consultants, Inc., Taiwan, 1989-1991.
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Journal Papers

1. Yishuo Huang, Paul Shih, Keng-Tsang Hsu and Chih-Hung Chiang, 2020. "To Identify the Defects Illustrated on Building Facades by Employing Infrared Thermography under Shadow," NTD&E International, Volume 111, April 2020, 102240 (SCI/EI).
2. Yishuo Huang, 2015. "Detecting the changes in rural communities in Taiwan by applying multiphase segmentation on FORMOSA-2 satellite imagery." International Journal of Applied Earth Observation and Geoinformation 41 (2015): 56-75. (SCI/EI)
3. Yishuo Huang, 2015. Depressing the Interferogram Phase Noise Using A Total Variation Approach, Journal of Remote Sensing and Photogrammetry, Vol. 19, No. 3, Pages, 153-167. ISSN 1021-8661
4. Yishuo Huang, Chui-Te Chiub, Ming-Gin Lee, Sang-Yuh Lin, 2014. Applying the Multilayer Level Set Approach to Explore the Thermal Surface Characteristics of Hot Mix Asphalt, Construction and Building Materials, Vol. 53, Pages 621-634. (SCI/EI)
5. Yishuo Huang, 2012. Segmenting Mammography to Detect Breast Cancer with Employing a Multilayer Level Set Approach, International Journal of Applied Science and Engineering, Vol. 10, No.2, pp. 113-122, 2012.
6. Yishuo Huang and Yu-Chen Huang, 2011. Segmentation SAR Satellite Image with the Multilayer Level Set Approach, IEEE Journal of Selected Topics in Applied Earth Observation and Remote Sensing, Vol. 4, No. 3, Pages 632-642. (SCI/EI)

7. Yishuo Huang and Jer-Wei Wu, "Infrared Thermal Image Segmentations Employing the Multilayer Level Set Method for Non-Destructive Evaluation of Layered Structures," *NDT&E International*, vol 43, pp 34-44,(SCI), Jan, 2010.
8. Ming-Gin Lee, Mang Tia, Shun-Hsing Chuang, Yishuo Huang and Chia-Liang Chiang, 2014. Pollution and Purification Study of the Pervious Concrete Pavement Material, *Journal of Materials on Civil Engineering*, Vol 26, No.8, Pages 04014035-1-9. (SCI/EI)
9. Ming-Ju Lee, Ming-Gin Lee, Yung-Chih Wang, Yishuo Huang and Wei-Chien Wang, 2015. Study of Steam and Microwave Curing of Concretes Containing Slag, Fly Ash, or Silica Fume, *Journal of Testing and Evaluation*, Vol 43, No.2, 2015. Vol 43, No.2, Pages 248-254. (SCI/EI)
10. Lee, M. G., Huang, T., Huang, Y., Peng, C. P., & Su, Y. M. (2016). Preliminary Study of Pervious Concrete on Pavement and Seawall. *Journal of Testing and Evaluation*, 45(1). (SCI/EI)

Conference Papers

1. Yishuo Huang and Jer-Wei Wu, 2009. Extracting the spatial features from satellite images using the multilayer level set method, 17th International Conference on Geoinformatics, Fairfax, VA, USA.
2. Yishuo Huang, Shang-Yuh Lin, Shengmin Wu, 2010. SAR satellite image interpretation based on the multilayer level set approach, 18th International Conference on Geoinformatics, Beijing, China.
3. Yishuo Huang, Shang-Yuh Lin, Jie-Chun Yang , Shengmin Wu, 2012. Decomposing GPR images in a variation approach, 14th International Conference on Ground Penetrating Radar (GPR), Shanghai, China.
4. Yishuo Huang and Chih-Ping Peng, 2014. Classifying landsat thermal data to detect patterns of urban sprawl with the multilayer level set approach, 2014 the 3rd International Workshop on Earth Observation and Remote Sensing Applications (EORSA), 11-14 June 2014, Changsha, China. (EI)
5. Chenyuan Chiu, Chih-Ping Peng, Yishuo Huang and Chi-Ping Wang, 2016. Monitoring Landslide Phenomena along Li-Shing Estate Road in Nantou County of Central Taiwan by Applying an Object-Oriented Segmentation Approach, 4th GeoChina International Conference, July 25-27, 2016 • Shandong, China. (EI)
6. Huijun Zhang, Yishuo Huang, Ken-Tsang Hsu and Chih-Huang Chiang, 2016. Depressing the Noise Effects Shown in GPR Images by Employing the Non-Local Approach, 16th International Conference of Ground Penetrating Radar, Hong Kong, Hong Kong, 13 - 16 June 2016. (EI)
7. Yishuo Huang, Chih-Hung Chiang, Keng-Tsang Hsu, 2018. "Combining the 3D model generated from point clouds and thermography to identify the defects presented on the facades of a building", *Proc. SPIE 10599, Nondestructive Characterization and Monitoring of Advanced Materials, Aerospace, Civil Infrastructure, and Transportation XII*, 105990G (27 March 2018); doi: 10.1117/12.2297656; <https://doi.org/10.1117/12.2297656>
8. Wu S., Huang Yishuo, Su YM., Lin YZ. (2019) Evaluating the Thermal Characteristics of Rubberized Asphalt by Applying the Object-Based Approach. In: Zhang K., Xu R., Chen SH. (eds) *Testing and Characterization of Asphalt Materials and Pavement Structures. GeoChina 2018. Sustainable Civil Infrastructures*. Springer, Cham.
9. Wang CP., Huang Y., Hsu SC., Hong JJ. (2019) Identifying the Defects Presented on the Exterior Layers of a Structure by Employing 3D Point Clouds and Thermography. In: Frikha W., Kawamura S., Liao WC. (eds) *New Developments in Soil Characterization and Soil Stability*.

GeoChina 2018. Sustainable Civil Infrastructures. Springer, Cham.

10. Yishuo Huang, Chih-Hung Chiang, Keng-Tsang Hsu. (2019) Evaluating the shadow or glare effects in thermography for non-destructive testing and evaluation, Proceedings Volume 10971, Nondestructive Characterization and Monitoring of Advanced Materials, Aerospace, Civil Infrastructure, and Transportation XIII; 1097113 (2019) <https://doi.org/10.1117/12.2514175>
11. Yishuo Huang, Qain Ying Yang, Chih-Hung Chiang, Keng-Tsang Hsu. (2020) Building cracks identification by employing image segmentation, Proceedings Volume 11381, Health Monitoring of Structural and Biological Systems XIV; 113811Y (2020) <https://doi.org/10.1117/12.2558335>