Xiaoshui Huang

University of Sydney – Sydney, NSW Australia

https://xiaoshuihuang.github.io/

Education

University of Technology Sydney	2015.02-2018.08
Ph.D. in Computer Science	
Shenyang Aerospace University	2011.09-2014.01
M.Eng. in Computer Science	
Taiyuan University of Technology	2006.09-2010.07
B.Sc. in Geometric Information System	

Work Experience

University of Sydney:	2019.09-Present
Postdoctoral Research Associate	
University of Technology Sydney	2019.01-2019.09
Research Fellow	
Tsinghua University:	2014.02-2015.02
Research Assistant	

Teaching

UTS 48450: Real-time Operating System – Tutor

UTS 49238: Telecommunication Networks Management – Tutor

Grants

- 1. **Xiaoshui Huang**, Matthew Field, Lois Holloway, Paul Keall, Shalini Vinod. "Analysing lung cancer guideline compliance with patient treatment outcomes using deep learning". *Ingham Research grant.* 2020–2021, **\$20K.**
- 2. Ali Haidar, Lois Holloway, Matthew Field, **Xiaoshui Huang**, Nasreen Kaadan, Farhannah Aly, Vikneswary Batumalai. "Unsupervised Machine Learning for Detecting and Fixing Variations in Cancer Patients Medical Records". *Ingham Research grant*. 2020–2021, **\$15K**.

Patents

- 1. Lixin Fan, **Xiaoshui Huang**, Qiang Wu, Jian Zhang. Point cloud matching method. 2019, US20190295266A1. **US patent**.
- 2. **Xiaoshui Huang**, Lixin Fan, Jian zhang, Qiang Wu. Cross-source point cloud registration. 2019, GB2566443A. **UK patent**.

Publications

Journals:

• Xiaoshui Huang, Lixin Fan, Qiang Wu, Jian Zhang, Chun Yuan. A coarse-to-fine algorithm for matching and registration in 3D cross-sourced point clouds. Accepted by Transactions on Circuits and Systems for Video Technology (T-CSVT). 2017. (JCR Q1)

• Xiaoshui Huang, Jian Zhang, Lixin Fan, Qiang Wu, Chun Yuan. "A Systematic Approach for Cross-Source Point Cloud Registration by Preserving Macro and Micro Structures," in IEEE Transactions on Image Processing (T-IP), vol. 26, no. 7, pp. 3261-3276, July 2017. (JCR Q1)

Conferences:

- Xiaoshui Huang, Guofeng Mei, Jian Zhang. Feature-metric Registration: A Fast Semisupervised Approach for Robust Point Cloud Registration without Correspondences. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2020. (CCF A)
- Xiaoshui Huang, Lixin Fan, Qiang Wu, Jian Zhang, Chun Yuan. Fast Registration for cross-source point clouds by using weak regional affinity and pixel-wise refinement. International Conference of Multimedia Expro (ICME) 2019. (CCF B)
- Xiaoshui Huang, Chun Yuan, and Jian Zhang, 2015, September. Graph Cuts Stereo Matching Based on Patch-Match and Ground Control Points Constraint. In Pacific Rim Conference on Multimedia (PCM) (pp. 14-23). Springer International Publishing. (CCF C)
- Tao Chen, Jian Zhang, Guo-Sen Xie, Yazhou Yao, Xiaoshui Huang, Zhenmin Tang. Classification Constrained Discriminator for Domain Adaptive Semantic Segmentation. International Conference of Multimedia Expro (ICME) 2020. (CCF B)
- Anan Du, Xiaoshui Huang, Jian Zhang, Lingxiang Yao, Qiang Wu. KPSNET: Keypoint detection and feature extraction for point cloud registration. International Conference on Image Processing (ICIP) 2019. (CCF C)
- Shoujin Wang, Liang Hu, Longbing Cao, Xiaoshui Huang, Defu Lian, Wei Liu. Attention-based Transactional Context Embedding for Next-Item Recommendation. AAAi 2018. (CCF A)

Awards

- International research scholarship: awarded for research project from UTS
- Faculty of Engineering and Information Technology Scholarship: awarded for research project from UTS
- FEIT One-off Research Scholarship: awarded for research publication. 2015, 2016, 2017
- Higher Degree by Research Publication Award: awarded for 2017 high degree research publications.
- Nokia Industrial Awards: awarded for the patent granted between UTS and Nokia. 2017

Academic Service

Journal Reviewer:

IEEE Transactions on Image Processing

IEEE Transactions on Circuits and Systems for Video Technology

IEEE Transactions on Multimedia

IEEE Sensors Journal

IEEE MultiMedia

EURASIP Journal on Image and Video Processing

<u>Conference Reviewer:</u>

International Conference on Multimedia Expro Computer Vision and Pattern Recognition Workshop International Conference on Image Processing International Conference on Digital Image Computing: Techniques and Applications