

# Tianli Liao

College of Information Science and Engineering  
Henan University of Technology  
No. 100 Lianhua Street, Zhengzhou High-Tech Development Zone  
Henan, 450001, China

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E-mail: tianli.liao@haut.edu.cn

## Education

- **Nankai University** Tianjin, China  
*Ph.D. in Applied Mathematics*  
2013 - 2019  
– Advisor: Yongchuan Chen
- **Wuhan University** Wuhan, China  
*B.S. in Mathematics*  
2009 - 2013

## Research Interests

Computer Vision; Machine Learning; Image Processing

- Image and video stitching
- View synthesis
- Style transfer
- Multi-view geometry

## Professional Activities

- Reviewer, Signal, Image and Video Processing (SIViP)
- Reviewer, IEEE Transactions on Geoscience and Remote Sensing (TGRS)
- Reviewer, Machine Vision and Applications
- Reviewer, IEEE Transactions on Image Processing (TIP)

## Honors & Awards

- Merit Scholarship for Students, School of Mathematics and Statistics, Wuhan University, December, 2012
- Merit Scholarship for Students, School of Mathematics and Statistics, Wuhan University, December, 2011
- Merit Scholarship for Freshman Students, Wuhan University, December, 2009

## Projects

- Front-facing Panoramas Techniques Algorithm (with HUAWEI Technologies Co., Ltd.), 2015

## Publications

### Journal Papers

(\* indicates corresponding author)

- Single-Perspective Warps in Natural Image Stitching  
**Tianli Liao** and Nan Li  
*IEEE Transactions on Image Processing (TIP)*, 29, 724-735 (2020).
- Quality evaluation-based iterative seam estimation for image stitching  
**Tianli Liao**, Jing Chen and Yifang Xu  
*Signal, Image and Video Processing (SIViP)*, 13(6), 1199-1206 (2019).
- Learning-based Natural Geometric Matching with Homography Prior  
Yifang Xu, **Tianli Liao** and Jing Chen  
*Electronics Letters*, 54(23), 1328-1330 (2018).
- Perception-based seam cutting for image stitching  
Nan Li, **Tianli Liao\*** and Chao Wang  
*Signal, Image and Video Processing (SIViP)*, 12(5), 967-974 (2018).