

Tianli Liao

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Education

- **Nankai University** Tianjin, China
Ph.D. in Applied Mathematics 2013 - 2019
 - Advisor: Yongchuan Chen
 - Thesis: Research on Perception-based Strategies for Image Stitching
- **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 (MVA)
- Reviewer, IEEE Transactions on Image Processing (TIP)

Funded Projects

- Principal Investigator, Research on Panoramic Image Stitching Method for Large Parallax Scene, Natural Science Foundation of Henan Province, 2022-2023, CHY 50,000

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).