Tianli Liao

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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/video stitching
- Image alignment
- Image manipulation
- Texture synthesis

Professional Activities

- Reviewer, Signal, Image and Video Processing (SIViP)

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**), doi: 10.1109/TIP.2019.2934344, 2019.

- 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).

Conference Papers