

Yizhen Lao

Resumé

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Education

- 2016–2019 **Ph.D.**, *Université Clermont Auvergne*, Clermont-Ferrand, .
in Electronic and System
- 2014–2016 **M. Sc.**, *University of Twente*, Enschede, 79/100.
in Geo-information Science and Earth Observation
- 2010–2014 **B.Eng.**, *Wuhan University*, Wuhan, 84.1/100.
in Spatial-Informatics and Digitalized Technology

Employment

- 2019–2019 **Postdoctoral Researcher**, *Institut Pascal, UMR 6602 Université Clermont Auvergne/CNRS*, Clermont-Ferrand.
Research topic: Rolling shutter correction in real-time
- 2016–2019 **Doctorant**, *Institut Pascal, UMR 6602 Université Clermont Auvergne/CNRS*, Clermont-Ferrand.
Research topic: 3D SLAM with non-global acquisition cameras

Research interests

Computer vision
Machine learning

Academic Service

- Reviewer **Journal:** *Complexity*
Conference: *CVPR 2019 2020, ICCV 2019, ECCV 2020, AAI 2020*

Publications

- Title **Rolling Shutter Homography and its Applications**
Yizhen Lao, Omar Ait-Aider
IEEE Transactions on Pattern Analysis and Machine Intelligence (**T-PAMI**), 2020
- Title **Rolling Shutter Pose and Ego-motion Estimation using Shape-from-Template**
Yizhen Lao, Omar Ait-Aider, Adrien Bartoli
European Conference on Computer Vision 2018 (**ECCV**), 2018

Title **A Robust Method for Strong Rolling Shutter Effects Correction Using Lines with Automatic Feature Selection**

Yizhen Lao, Omar Ait-Aider

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018

Title **Robustified SfM with Rolling-Shutter Camera Using Straightness Constraint**

Yizhen Lao, Omar Ait-Aider, Helder Araujo

Pattern Recognition Letters (**PRL**), 2018

Title **Topology Based Classification of Mobile Laser Scanning Data with Conditional Random Fields**

Yizhen Lao

M.Sc thesis , 2016

Title **The Spatial Analysis of Weibo Check-in Data——The Case Study of Wuhan**

Mingye Bao, Nanhai Yang, Liang Zhou, Yizhen Lao, Yun Zhang, Yangge Tian

Geo-Informatics in Resource Management and Sustainable (**GRMSE**), 2013

Title **Spatio-temporal analysis of weibo check-in data based on spatial data warehouse**

Liang Zhou, Mingye Bao, Nanhai Yang, Yizhen Lao, Yun Zhang, Yangge Tian

Geo-Informatics in Resource Management and Sustainable (**GRMSE**), 2013

Research Projects

Title **Real-time Rolling Shutter Correction System**

Yizhen Lao, Omar Ait-Aider

- Highlight
1. This is the first monocular real-time RS effect rectification system in the world.
 2. Feasible to Non-rigid scene and general 6-DoF camera motion.

Languages

Chinese Native proficient

English Professional working proficient

French Basic

Skills

Languages C++, Java, Python, Matlab, R

Libraries OpenCV, PCL, Keras, Tensorflow

Sports Athens Marathon, 2015