

DENING LU

Birthday: 1996.09.05

University of Waterloo

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EDUCATION

Nanjing University of Aeronautics and Astronautics, P.R China
M.S. in Mechanical & Electrical Engineering

Sep. 2018 - 2021

- Supervisor: Prof. **Jun Wang** & Prof. **Mingqiang Wei**
- Major courses: Matrix Theory, Digital Geometry Processing, Computer Graphics, Computer Vision.

Nanjing University of Aeronautics and Astronautics, P.R China
B.S. in Aircraft manufacturing engineering

Sep. 2014 - Jun. 2018

- Major courses: Advanced Mathematics, Linear Algebra, Probability Theory, Fundamentals of Mechanical Manufacturing.

RESEARCH INTEREST

3D Laser Scanning, Point Cloud Processing and Analysis, Digital Geometry Processing and 2D/3D Deep Learning.

PUBLICATIONS

1. **Dening Lu**, Xuequan Lu, Yangxing Sun, et al. Deep Feature-Preserving Normal Estimation for Point Cloud Filtering, Computer Aided Design, 2020: 102860, presented in SPM 2020.
2. Qian Xie, **Dening Lu**, et al. Aircraft Skin Rivet Detection Based on 3D Point Cloud via Multiple Structures Fitting, Computer Aided Design, 2020, 120: 102805.
3. Cheng Yi, **Dening Lu**, et al. Hierarchical Tunnel Modeling from 3D Raw LiDAR Point Cloud, Computer Aided Design, 2019, 114: 143-154. presented in SPM 2019.
4. Qian Xie, **Dening Lu**, et al. RRCNet: Rivet Region Classification Network for Rivet flush Measurement Based on 3D Point Cloud, IEEE Transactions on Instrumentation and Measurement, IEEE Transactions on Instrumentation and Measurement, vol. 70, pp. 1-12, 2021.
5. Qian Xie, Yiming Zhang, Xuanming Cao, Yabin Xu, **Dening Lu**, et al. Part-in-whole point cloud registration for aircraft partial scan automated localization. Computer-Aided Design, 2021, 137: 103042.
6. Qian Xie, Yu-Kun Lai, Jing Wu, Zhoutao Wang, **Dening Lu**, Mingqiang Wei and Jun Wang. VENet: Voting Enhancement Network for 3D Object Detection, accepted by 2021 IEEE/CVF International Conference on Computer Vision (ICCV).

SELECTED AWARDS

- China National Scholarship for Master Students

2020, NUAA

- First-Class Postgraduate Scholarship for Master Students

2018/2019, NUAA .

SKILLS

- C/C++, Python, Latex, MATLAB.
- OpenCV, PCL.
- ensorFlow, Pytorch.
- 3D modeling platform such as CATIA, AutoCAD.