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Education

Wuhan University Wuhan, China

B.Eng. Remote Sensing and Photogrammetry Sep. 2010 - Jun. 2014

• GPA: 3.7 Rank: 3/108

University of New South Wales Sydney, Australia

DOCTOR OF PHILOSOPHY. CIVIL AND ENVIRONMENTAL ENGINEERING Mar. 2015 - Jul. 2015

• Withdraw the program after the first term

York University Toronto, Canada

M SC FARTH AND SPACE SCIENCE Oct. 2015 - Jun. 2018

• Master Thesis: Multi-Scale Hierarchical Conditional Random Field for Railway Electrification Scene Classification Using Mobile Laser Scanning Data

Research Experience _____

Railway Detection and Scene Understanding of Mobile LiDAR Data using CRF

DEPARTMENT OF EARTH AND SPACE SCIENCE AND ENGINEERING

• Implemented a CRF based algorithm to segment large-scale mobile laser scanning data.

3D Indoor Scene Understanding Based on Convolutional Neural Network

DEPARTMENT OF EARTH AND SPACE SCIENCE AND ENGINEERING

• Implemented a Fully Convolutional Network for indoor point cloud semantic segmentation

Titane Team, INRIA Nice, France

RESEARCH INTERN Jul. 2017 - Nov. 2017

• Object recognition from fire map using consumer-graded camera

Research Interests _____

Classical Chinese Poetry poetry in the period of Division; poetry in late Tang; poetry criticism in Late Imperial **Marxism & Socialism** Marxism & Christianity, Chinese Socialism, Cultural Revolution

Chinese Modern Literature New Cultural Movement & Xueheng Faction

Professional Experience _____

School of Remote Sensing and Information Engineering, Wuhan University

Wuhan, China

York University, Canada

York University, Canada

Oct. 2015 - Jul. 2017

Feb. 2017 - Jul. 2017

RESEARCH ASSISTANT

Jul. 2014 - Feb. 2015

Mar. 2019 - Present

• The development of Android based cadastral survey software

Teledyne Optech Toronto, Canada

RESEARCH INTERN Mar. 2018 - Jun.2018

· Noise filtering from high-volume airborne lidar data with a combination of machine learning based algorithms

Teledyne Optech Toronto, Canada RESEARCH SCIENTIST

• Noise filtering from high-volume airborne lidar data using a variety of deep learning technologies

• 1D waveform processing and noise filtering with bathymetry lidar data

Extracurricular Activity _____

Department Soccer Team

VICE CAPITAL

Wuhan University, China

Sep. 2012 - Sep. 2013

Chunyin Chinese Ancient Poetry Society

Мемвея

Wuhan University, China

Sep. 2010 - Jun. 2013

Honors & Awards

2017	Mitacs GlobalLink Research Award	Toronto, Canada
2015	IPRS scholarship	Sydney, Australia
2014	First-honor graduate	Wuhan, China
2012	Microsoft Scholarship for Chinese Remote Sensing Student	Wuhan, China
2011	Chinese National Scholarship	Wuhan, China

Skills ____

Programming Python, MatLab, C/C++, JAVA, JavaScript

Office Microsoft Office, LTFX

Languages Chinese (Native), English (Professional proficiency), French (Limited proficiency), Japanese (very limited proficiency)

Publications

- Jung, J., Chen, L., Sohn, G., Luo, C. and Won, J.U., 2016. Multi-Range Conditional Random Field for Classifying Railway Electrification System Objects Using Mobile Laser Scanning Data. *Remote Sensing*, 8(12), p.1008 (Co-first author).

 Babacan, K., Chen, L., and Sohn, G., 2017. SEMANTIC SEGMENTATION OF INDOOR POINT CLOUDS USING
- [2] CONVOLUTIONAL NEURAL NETWORK, ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci., IV-4/W4, pp. 101-108, https://doi.org/10.5194/isprs-annals-IV-4-W4-101-2017.
 - Chen, L., Jung, J. and Sohn, G., 2019. Multi-Scale Hierarchical CRF for Railway Electrification Asset Classification From
- [3] Mobile Laser Scanning Data. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 12(8), pp.3131-3148.
 - Jameela, M., Chen, L., Sit, A., Yoo, J., Verheggen, C. and Sohn, G., 2020. SIMULATION-BASED DATA AUGMENTATION USING
- [4] PHYSICAL PRIORS FOR NOISE FILTERING DEEP NEURAL NETWORK. *The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*, 43, pp.247-254.