

Lingyan Ran(冉令燕)

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SUPERVISOR Supervised by Prof. Yanning Zhang, Dean of the school of Computer Science
LABORATORY and Technology

From Digital Video Processing Group, Shaanxi Provincial Key Laboratory of
Speech & Image Information Processing

EDUCATION *Concentration: Computer Science and Technology*

Visiting scholar, Stevens Institute of Technology, Hoboken, NJ Sep. 2013 -
Sep. 2015

Northwestern Polytechnical University(NPU), Xi'an, China

Ph.D, school of Computer Science and Technology Sep. 2011 - Jun. 2018

Bachelor, school of Computer Science and Technology Sep. 2010 - Jul. 2011

Bachelor, Honors College Sep. 2007 - Jul. 2010

HONORS & First Level Prize of Excellent Graduate Student of NPU 2011
AWARDS First Level Prize of Excellent Graduate Paper for Bachelor Degree 2010
First Level Prize of Excellent Student of NPU 2007-2010
Outstanding Position Paper Award from the Model UN Conference, NPU 2008

ENGLISH College English Test (CET) - Band 6

PROFICIENCY

COMPUTER *Programming Language: C/C++, Matlab, Lua, etc*

SKILLS *Programming Tools: Microsoft Visual Studio, Matlab*

Programming Library: OpenCV, Torch, MFC

PROFESSIONAL Teaching Assistant for the Introduction to Audio, Speech & Language Processing
ACTIVITIES Class 2012

Volunteer for the Sino-foreign-interchange Workshop on Intelligence Science and
Intelligent Data Engineering (ISciDE) 2011

Volunteer for the Asia-Pacific Signal and Information Processing Association

(APSIPA)

2011

Monitor of the NPU Honorable Model Class

2007-2010

**RESEARCH
INTERESTS**

Computer Vision and Pattern Recognition
Deep Learning
Binary Feature Description
Multi-sensor Information Cooperative Processing
Camera Array Synthetic Aperture Imaging
Image Registration and Stitching

SELECTED

Zhanbo Yang, **Lingyan Ran**, Shizhou Zhang, Yong Xia, and Yanning Zhang.

PUBLICATIONS

EMS-Net: Ensemble of Multiscale Convolutional Neural Networks for Classification of Breast Cancer Histology Images, Neurocomputing, 2019.

Zhanbo Yang, **Lingyan Ran**, Yong Xia, and Yanning Zhang. *MSA-Net: Multi-scale Spatial Attention Network for the Classification of Breast Histology Images*, 2019 International Conference on Brain-Inspired Cognitive Systems (BICS 2019), Guangzhou, China.

Lingyan Ran, Yanning Zhang, Wei Wei, and Qilin Zhang. *A Hyperspectral Image Classification Framework with Spatial Pixel Pair Features*, Sensors 2017, 17(10), 2421.

Lingyan Ran, Yanning Zhang, Qilin Zhang, Tao Yang. *Convolutional Neural Network-Based Robot Navigation Using Uncalibrated Spherical Images*, Sensors 2017, 17(6), 1341.

Lingyan Ran, Yanning Zhang, Tao Yang. *Autonomous Near Ground Quadron Navigation with Uncalibrated Spherical Images Using Convolutional Neural Networks*, Proceedings of the 14th International Conference on Advances in Mobile Computing and Multimedia (MoMM), 2016.

Lingyan Ran, Yanning Zhang, Tao Yang, Peng Zhang. *Autonomous Wheeled Robot Navigation with Uncalibrated Spherical Images*, The 4th Chinese Conference on Intelligent Visual Surveillance (IVS), 2016.

Lingyan Ran, Yanning Zhang, Wei Wei, Tao Yang. *Bands Sensitive Convolutional Network for Hyperspectral Image Classification*, Inter. Conf. on Internet Multimedia Computing and Service, 2016.

Lingyan Ran, Yanning Zhang, Gang Hua, CANNET: Context Aware Nonlocal Convolutional Networks for Semantic Image Segmentation, International Con-

ference on Image Processing (ICIP 2015), Quebec, Canada.

TaoYang, Jing Li, Jingyi Yu, Yanning Zhang, Wenguang Ma, Xiaomin Tong, Rui Yu, **Lingyan Ran**. Multiple-Layer Visibility Propagation-Based Synthetic Aperture Imaging through Occlusion. *Sensors*, 2015, 15, 18965-18984.

Tao Yang, Yanning Zhang, Jingyi Yu, Jing Li, Wenguang Ma, Xiaomin Tong, Rui Yu, **Lingyan Ran**. All-In-Focus Synthetic Aperture Imaging, ECCV 2014.

Tao Yang, Yanning Zhang, Rui Yu, Xiaoqiang Zhang, Ting Chen, **Lingyan Ran**, Zhengxi Song. Simultaneous camera array focus plane estimation and occluded moving object imaging. *Image and Vision Computing*, 2014

Tao Yang, Xiaoqiang Zhang, **Lingyan Ran**, Rui Yu, Runping Xi, *Camera Array Synthetic Aperture Focusing and Fusion based Hidden Object Imaging*, Sino-foreign-interchange Workshop on Intelligence Science and Intelligent Data Engineering (ISciDE 2011), Xi' an, China.

SELF-

EVALUATION

Great team spirit

Independent technical researching ability

Full of enthusiasm in work

Great communication skills with colleagues and clients

Thanks for reading!