

WENTAO BAO

Luoyu Rd. No. 129 ◇ Wuhan, Hubei, P. R. China, 430079

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EDUCATION

Wuhan University

Expected in June 2019

Master's Degree from School of Remote Sensing & Information Engineering

Major in Photogrammetry & Remote Sensing

Overall GPA: 3.75/4.00

Wuhan University

Sep. 2012 - June 2016

Bachelor's Degree from School of Remote Sensing & Information Engineering

Major in Remote Sensing Science & Technology

Overall GPA: 3.77/4.00

PUBLICATION

Wentao Bao, Zhenzhong Chen. Human Scanpath Prediction based on Deep Convolutional Saccadic Model. **Neurocomputing**, under review, 2018.

Daiqin Yang, **Wentao Bao**. Group Lasso based Band Selection for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters (GRSL)*, vol. 14, no. 12, pp. 2438-2442, Nov. 2017.

Zhenzhong Chen, Weihang Liao, Bin Xu, Hongyi Liu, Qisheng Li, He Li, Chao Xiao, Hang Zhang, Yiming Li, **Wentao Bao**, Daiqin Yang. Object Tracking over a Multiple-Camera Network. *IEEE International Conference on Multimedia Big Data (BigMM)*, Apr. 2015.

Jiangping Chen, **Wentao Bao**, Yaqi Liu. Self-adaption Indoor Parking Navigation and Automatic Parking System and Method based on Bluetooth Low Energy (BLE), **China Invention Patent**, Application No. CN201710791726.5, Publication No. CN107605219A, Publication Date 2018.01.19.

RESEARCH EXPERIENCE

3D Object Detection for Autonomous Driving

Mar. 2019 - Present

Graduate Researcher, with Prof. Zhenzhong Chen

Lab. of IIP, WHU

- To detect the 2D and 3D objects with single monocular image for autonomous driving.
- A feature enhancement network is proposed to improve the 3D localization capability of CNN-based features from 2D object detector, achieving state-of-the-art performance on KITTI benchmark.
- The work will be published in the top-tier journal IEEE TIP.

Human Scanpath Prediction

Sep. 2017 - Mar. 2018

Graduate Researcher, with Prof. Zhenzhong Chen

Lab. of IIP, WHU

- Aiming at predicting the human scanpath which reveals the dynamic visual attention of human eyes.
- Proposed a deep convolutional saccadic model to simulate the (inhibition of return) IOR process considering on both temporal and spatial association with image content.

Style Harmonization for MODIS Satellite Image Mosaicking

Feb. 2017 - Aug. 2017

Graduate Researcher, with Prof. Zhenzhong Chen

Lab. of IIP, WHU

- Aiming at unifying the holistic style of all satellite images to be mosaicked as a world satellite map.
- Proposed a GAN based style transfer model considering on global colorimetric harmonization and local texture consistency of multiple satellite images.

Band Selection for Hyperspectral Image (HSI) Classification

Sept. 2016 - May. 2017

*Graduate Researcher, with Prof. Daiqin Yang**Lab. of IIP, WHU*

- Aiming at pixelwise classification and feature selection based dimension reduction for HSI data.
- Proposed a group lasso based band selection (GLBS) model optimized with group lasso regularization and multinomial classification simultaneously.

Pedestrian Detection and Tracking with Surveillance Video

July 2015 - Aug. 2016

*Undergraduate Intern, with Prof. Zhenzhong Chen**Lab. of IIP, WHU*

- Aiming at solving some key problems in pedestrian detection and tracking tasks for surveillance scenario with deep convolutional neural networks.
- Improved the performances of Faster RCNN for pedestrian detection and STC for pedestrian tracking.

COMPETITION EXPERIENCES

Grand Prize Winner , Salient360! Visual Attention Modeling for 360° Content.	July 2018
Third Prize , National Graduate Contest on Smart-City, Abnormal Event Detection.	Aug. 2017
Bronze Award , China College Students "Internet Plus" Competition, Hubei Division.	Dec. 2016
Second Prize , National Graduate Contest on Smart-City, Abnormal Event Detection.	Aug. 2016
First Prize , BigMM 2015 Challenge, Object Tracking over Multiple-Camera Network.	Apr. 2015
Third Prize , National Challenge Cup 2015, Special Contest on Smart City.	July 2015
Third Prize , National SuperMap Cup 2015, Cloud Platform Development.	Dec. 2015
Meritorious Winner , Mathematical Contest in Modeling (MCM).	Feb. 2015
Second Prize , National SuperMap Cup 2014, Android Application Development.	Dec. 2014

SELECTED HONORS

Excellent Graduated Student, Wuhan University. (top 10%)	May, 2019.
China National Scholarship for graduate students,	Oct. 2018.
The First-class Academic Scholarship, Wuhan University. (top 10%)	Oct. 2017 & 2018.
Outstanding Postgraduate Student, Wuhan University. (top 10%)	Dec. 2017 & 2018.
Excellent Graduate Freshman Scholarship, Wuhan University. (top 10%)	Oct. 2016
Advanced Individual, Wuhan University. Jan. 2016	

SKILLS

Programing Languages	Python, C/C++, Matlab, Java
Deep Learning Libraries	TensorFlow, Caffe, MXNet, PyTorch, Keras
Other Skills	Latex, Git, Vim

RESEARCH INTERESTS

Computer Vision, Video Analytics, Image Processing, including:

- 2D/3D Object Detection, Action Recognition/Prediction, Depth Estimation, Point Cloud Processing.
- Visual Attention Modeling, Remote Sensing Image Processing.