

## Assistant Professor JIANG, SHENLU

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### Academic Qualification

Ph.D. in Sungkyunkwan University (2017-2020)

B.Eng. in Shanghai Ocean University (2011-2015)

### Teaching Area

Data Structure

FPGA programming

Robotics

### Research Area

Robot Vision

### Working Experience

Postdoctoral Researcher INRIA(2020-2021)

Research assistant CUHK (2020)

Research assistant PolyU HK (2018-2019)

Shark Ninja (Beijing Qfeel) (2015-2016)

### Academic Publication

**S. Jiang**, R. Cui, R. Wei, Z. Fu, Z. Hong, G. Feng, Tracking by Segmentation with Future Motion Estimation Applied on Person-following Robot, *Frontiers in Neurorobotics*, 2023

E. Zhang, R. Xie, Y. Bian, J. Wang, P. Tao, H. Zhang, **S. Jiang\***. Cervical Cell Nuclei Segmentation Based on GC-UNet, *Heliyon-cells*, 2023 (JCR Q2)

S. Jiang, Y. Tarabalka, Z. Hong, W. Yao, Space-to-speed Architecture Supporting Acceleration for Building Segmentation on VHR Images,

*ISPRS Journal of Photogrammetry and Remote Sensing*, 2023, (JCR Q1)

S. Jiang, Z. Hong\*. Unexpectedly Dynamic Obstacle Monocular Detection in Driver View. *IEEE Intelligent Transportation Systems Magazine*, 2022, (JCR Q1)

Z. Hong, Y. Yang, J. Liu\*, **S. Jiang\*** etc. Enhancing 3D Reconstruction Model by Deep Learning and Its Application in Building Damage Assessment after Earthquake, *Applied Sciences-Basel*, 2022 (JCR Q2)

Y. Bian, E. Zhang, R. Xie, J. Wang, **S. Jiang\***, Swin Transformer UNet for Very High Resolution Image Dehazing, *Sensors and Materials*, accepted, 2022. (JCR Q3)

Z. Hong, T. Yang, X. Tong, Y. Zhang, **S. Jiang** etc. Multi-scale ship detection from SAR and optical imagery via a more accurate YOLOv3. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 2021 (JCR Q1)

Z. Hong, S. Xu, Y. Zhang, R. Zhou, Y. Han, J. Wang, S. Yang, J. Liu, **S. Jiang**\*. Designing and Implementing a Low-cost Unmanned Aerial Vehicle Based on Beidou/GPS. *Sensors and Materials*, 2020. (JCR Q3)

G. Li, **S. Jiang**, etc, Depth-wise Asymmetric Bottleneck with Point-wise Aggregation Decoder for Real-time Semantic Segmentation in Urban Scenes, *IEEE ACCESS*, 2020.

T. Yang<sup>+</sup>, **S. Jiang**<sup>+</sup>, Z. Hong, T.Y. Kuc etc., Sea-land Segmentation Using Deep Learning Techniques for Landsat-8 OLI Imagery, *Marine Geodesy*, 2020 (JCR Q3)

S. Jiang, W. Yao, M. Wong, G. Li, Z. Hong, An Optimized Deep Neural Network Detecting Small and Narrow Rectangular Objects in Google Earth Images, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 2020 (JCR Q1)

S. Jiang, W. Yao, M. Wong, M. Hang, Z. Hong, E. Kim, S. Joo and T. Kuc, Automatic Elevator Button Localization Using a Combined Detecting and Tracking Framework for Multi-story Navigation, *IEEE ACCESS*, 2019 (JCR Q1)

Y Yang, N Chen, **S Jiang** · Collaborative strategy for visual object tracking · *Multimedia Tools and Applications* 77 (6), 7283-7303 · 2018 (JCR Q1)

S Jiang, W Yao, Z Hong, L Li, C Su, T Kuc · A Classification-Lock Tracking Strategy Allowing a Person-Following Robot to Operate in a Complicated Indoor Environment · *Sensors* 18 (11), 3903 · 2018 (JCR Q1)