

Bin Wang

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Education

Shanghai Jiao Tong University

M.Eng. in Electronic Engineering

Shanghai, China

Sept. 2019 - Mar. 2022

- Supervisor: Prof. Kaizhi Wang
- Department: Graduate Research Assistant in RadarTech Research Laboratory
- Research Direction: Radar Signal Processing

Southwest University

B.Eng. in Communication Engineering

Chongqing, China

Sept. 2014 - Jul. 2018

- Supervisor: Prof. Xing He
- Department: Undergraduate Research Assistant in Nonlinear Circuit Research Laboratory

Publications

Detection of Small Targets Based on Dual-Receive Channels Radar

Signal Processing, Small Target

2021

- Bin Wang, Jie Li, Jinzhi Liu, Kaizhi Wang
- 2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS

A MULTI-LEVEL FEATURES FUSION NETWORK FOR SAR SHIP SEGMENTATION

Detection, CNN

2022

- Han Qu, Bin Wang, Chenguang Yang, Kaizhi Wang
- 2022 IEEE International Geoscience and Remote Sensing Symposium IGARSS

Patents

Method of Dividing Frequency Bands to Improve Time Resolution

Shanghai Jiao Tong University

2021

- Bin Wang, Kaizhi Wang

Frequency Modulated Continuous Wave Model of being Symmetrical in Frequency Domain

Shanghai Jiao Tong University

2021

- Bin Wang, Kaizhi Wang

Key Academic Projects

Detection of High-Speed and High-Mobility Small Targets Based on Multistatic Radar

Advisor: Prof. Kaizhi Wang, Shanghai Jiao Tong University

Sept. 2019 - Nov. 2021

- Design a frequency modulated continuous wave model of being symmetrical in frequency domain in order to avoid the shortcoming in traditional FMCW signals of low time resolution.
- Propose an object detection algorithm with multi-period signals based on designed signal model which realizes the acquisition of multi-dimensional motion information of the target, such as speed, distance, and altitude.
- Using the method of dividing frequency bands to improve time resolution, which achieves a significant increase in time resolution in exchange with large bandwidth.
- Design a complete radar system (including the generation, acquisition processing of signal) and determine the specific system parameters according to the detection requirements.

Honors and Awards

- Second Class Scholarship of Shanghai Jiao Tong University, Shanghai Jiao Tong University 2020
- Third Class Scholarship, Southwest University 2016
- Advanced Individual in Social Event Activities, Southwest University 2016

Experience

Intel Asia Pacific Research And Development Ltd.

Cloud Software Development Engineer

May. 2022 - present

- Project website: <https://github.com/WangbinIntel>

Key Work Projects

Pipe Line Usage in Task Orchestration[PLUTO]

Manager: Zhengjun Wang, Intel

Jul. 2022 - present

- Join in the design of PLUTO, a automatic CI pipeline for different develop models.
- Realize the logical design of flow-manager startup, which can instantly generate different virtual environments that meet the requirements for different development models
- Optimize the cache storage function in order that the performance of calling API from the front-end page is improved by 50%.
- Developed and deployed code style review and unit testing modules for Go-Lang, realizing controllable code quality for the project using the language.

Technical Strengths

- **Programming Languages:** Python, C/C++, Matlab
- **Developer Tools:** Git, CMake, Docker, MySQL
- **Writing Tools:** \LaTeX , Markdown