Ming

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Education

Beijing Institute of Technology

Sep. 2019 – Jul.2024 (Expected)

Ph.D. in Guidance, Navigation, and Control

Beijing, China

GPA: 4.0/4.0

Beijing Institute of Technology

Sep. 2018 – Jul. 2019

M.Eng. in Guidance, Navigation, and Control

Beijing, China

GPA: 3.8/4.0

Beijing Institute of Technology

Sep. 2014 - Jul. 2018

B.Eng. in Automation

Beijing, China

GPA: 3.6/4.0

Publications & Manuscripts

Publications

• Dynamic Anchor Learning for Arbitrary-Oriented Object Detection

Q. Ming, Z. Zhou, L. Miao, H. Zhang, L. Li,

は (1) 数 Proceedings of the Thirty-Five AAAI Conference on Artificial Intelligence (AAAI), 2021.

CFC-Net:A Critical Feature Capturing Network for Arbitrary-Oriented Object Detection in Remote Sensing Images

Q. Ming, L. Miao, Z. Zhou, Y. Dong,

IEEE Transactions on Geoscience and Remote Sensing (TGRS) (SCI Q1 Top, IF=5.60), 2021.

• Sparse Label Assignment for Oriented Object Detection in Aerial Images

Q. Ming, L. Miao, Z. Zhou, J. Song, X. Yang,

Remote Sensing (RS) (SCI Q2, IF=4.85), 2021.

• Optimization for Oriented Object Detection via Representation Invariance Loss

Q. Ming, Z. Zhou, L. Miao, X. Yang, Y. Dong.

IEEE Geoscience and Remote Sensing Letters (GRSL) (SCI Q2, IF=3.96), 2021.

Rethinking Rotated Object Detection with Gaussian Wasserstein Distance Loss

X. Yang, J. Yan, Q. Ming, W. Wang, X. Zhang, Q. Tian

Proceedings of the Thirty-eighth International Conference on Machine Learning (ICML), 2021.

Manuscripts

• Towards High-Precision Oriented Object Detection with Hierarchical Localization Guidance

Q. Ming, Z. Zhou, L. Miao, Y. Dong, X. Yang, Y. Lin. (Under review)

• Learning High-Precision Bounding Box for Rotated Object Detection via Kullback-Leibler Divergence

X. Yang, X. Yang, J. Yang, Q. Ming, W. Wang, Q. Tian, J. Yan. (Under review)

• AdaL: Adaptive Gradient Transformation Contributes to Convergences and Generalizations H. Zhang, W. Zou, H. Zhao, Q. Ming, T. Yan, Y. Xia, W. Cao. (Resubmitted after major revision) 犮

• Progressive Orientation Approximating for Rotated Object Detection

Q. Ming, L. Miao, Z. Zhou, J. Song, X. Yang. (To be submitted)

• Gradient Harmonized Rotated IoU: Towards High-precision Bounding Box Learning for Oriented Object Detection

Q. Ming, L. Miao, Z. Zhou, J. Song, X. Yang. (Working paper)

Experience

Institute of Navigation, Guidance and Control

Sep. 2018 - Present

Ph.D. candidate

Beijing, China

- Led the team to participate in the challenge on remote sensing object extraction. Rank: 9/416 (top 2%)
- Developed a high-precision PCB defect detection system for the China Unicom-Beijing Institute of Technology Joint Laboratory, achieving the detection accuracy of up to 99%
- Led the team to participate in the GaoFen Challenge on Automated High-Resolution Earth Observation Image Interpretation (top 10%).

Service

Journal Review

- IEEE Geoscience and Remote Sensing Letters (GRSL)
- International Journal of Digital Earth (IJDE)
- Journal of Visual Communication and Image Representation (JVCI)