Ming

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Education

Ghent University

Oct. 2022 – Oct.2023 (Expected)

Visiting Ph.D. student in Faculty of Engineering and Architecture

Ghent, Belgium

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,

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.

D (I • Optimization for Arbitrary-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. C) a

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.

• 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. Proceedings of the Thirty-fifth Annual Conference on Neural Information Processing Systems (NeurIPS), 2021.

Manuscripts

- Gradient Calibration Loss for Fast and Accurate Oriented Bounding Box Regression
 - Q. Ming, L. Miao, Z. Zhou, J. Song, (Under review)
- Task Interleaving and Orientation Estimation for High-Precision Oriented Object Detection in Aerial Images
 - Q. Ming, L. Miao, Z. Zhou, J. Song, Y. Dong, X. Yang, (Under review)
- Oriented Feature Alignment for Fine-grained Object Recognition in High-Resolution Satellite Imagery
 - **Q. Ming**, J. Song. (*Technical report*)
- Fine-Grained Object Detection in Remote Sensing Images via Adaptive Label Assignment and Refined-Balanced Feature Pyramid Network
 - J. Song, L. Miao, Q. Ming, Z. Zhou, Y. Dong, (Under review)

Experience

Institute of Navigation, Guidance and Control

Sep. 2018 – Present

Ph.D. candidate

Beijing, China

- Participated in 2022 RoboMaster University AI Challenge (RMUA) and won the 3rd prize.
- Participated in 2022 iFLYTEC A.I. Developer Competition on remote sensing object extraction. Rank: 9/416 (top 2%)
- Participate in 2022 GaoFen Challenge on Automated High-Resolution Earth Observation Image Interpretation. Rank: wining team, 6/220

Reviewer

IEEE Geoscience and Remote Sensing Letters (GRSL), International Journal of Digital Earth (IJDE), Journal of Visual Communication and Image Representation (JVCI), CVPR2022, ECCV2022, 3DV2022