TJNU Ground-based Remote Sensing Cloud Database Agreement

Introduction

The TJNU Ground-based Remote Sensing Cloud Database (TJNU-GRSCD) is collected in Tianjin, China from 2017 to 2018. It contains 8000 remote sensing ground-based cloud images which are divided into seven sky types: 1) cumulus, 2) altocumulus and cirrocumulus, 3) cirrus and cirrostratus, 4) clear sky, 5) stratocumulus, stratus and altostratus, 6) cumulonimbus and nimbostratus, 7) mixed cloud. The TJNU-GRSCD is composed of 4000 training images and 4000 test images from seven classes. The cloud images are captured by a sky camera with fisheye lens and stored in JPEG format with the pixel resolution of 1024×1024. All the images are cooperatively annotated by the meteorologists and the ground-based cloud researchers. The TJNU-GRSCD will be provided free of charge to cloud-related researchers in order to promote research. This agreement is granted by the providers in College of Electronic and Communication Engineering, Tianjin Normal University, Tianjin, China, and Meteorological Observation Centre, China Meteorological Administration, Beijing, China.

Content

The researcher(s) agrees to the following restrictions and requirements on the TJNU Ground-based Remote Sensing Cloud Database (TJNU-GRSCD):

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4. **Publication Requirements**: In no case should the samples be used in a way that could reasonably cause the original subject embarrassment or mental anguish.

5. **Acknowledgment**: In all documents and papers that report experimental results based on the TJNUGRSCD, a citation of this dataset should be added into the references or acknowledged in the acknowledgement.

6. **Indemnification**: Researcher agrees to indemnify, defend and hold harmless Tianjin Normal University, Tianjin, China, and Meteorological Observation Centre, China Meteorological Administration, Beijing, China, and their officers, employees and agents, individually and collectively, from any and all losses, expenses, damages, demands and/or claims based upon any such injury or damage (real or alleged) and shall pay all damages, claims, judgements or expenses resulting from researcher's use of the TJNU-GRSCD.

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If you use this dataset in your research, please cite our work as,

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@article{liu2020ground, author = {Liu, Shuang and Li, Mei and Zhang, Zhong and Cao, Xiaozhong and Durrani, Tariq S.},
    title = {Ground-Based Cloud Classification Using Task-Based Graph Convolutional Network}, journal = {Geophysical Research Letters}, volume = {47}, number = {5}, pages = {e2020GL087338},
    year = {2020},
    publisher={Wiley Online Library}
}

@article{liu2020multi, title = {Multi-evidence and Multi-modal Fusion Network for Ground-based Cloud Recognition},
    author = {Liu, Shuang and Li, Mei and Zhang, Zhong and Xiao, Baihua and Durrani, Tariq S.}, journal = {Remote Sensing}, volume = {12}, number = {3}, pages = {464}, year = {2020},
    publisher = {Multidisciplinary Digital Publishing Institute}
}
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