TJNU Cloud Detection Database (TCDD) Agreement

Introduction

The TJNU Cloud Detection Database (TCDD) is collected from 2019 to 2020 in nine provinces of China, which includes Tianjin, Anhui, Sichuan, Gansu, Shandong, Hebei, Liaoning, Jiangsu, and Hainan. It contains 2300 ground-based cloud images and their corresponding cloud masks. The TCDD is composed of 1874 training images and 426 test images. The cloud images are captured by visual sensors and stored in the PNG format with the pixel resolution of 512×512. All the images are cooperatively annotated by the meteorologists and the cloud-related researchers. The TCDD 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 TJNU Cloud Detection Database (TCDD):

1. **Redistribution**: Without prior approval from the providers, the TCDD, in whole or in part, will not be further distributed, published, copied, or disseminated in any way or form whatsoever, whether for profit or not. This includes further distributing, copying or disseminating to a different facility or organizational unit within the requesting university, organization or company.

2. **Modification**: Without prior approval from the providers, the TCDD, in whole or in part, will not be modified.

3. **Commercial Use**: Without prior approval from the providers, the TCDD, in whole or in part, will not be used for commercial use. Any commercial use of the database is strictly prohibited.

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 TCDD, 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 TCDD.

7. **Legal Disclaimer**: The TCDD is granted without any warranty. The providers shall not be held responsible for any damage (physical, financial or otherwise) caused by the use of the database. The providers shall not be held responsible of any illegal or criminal use of the database by the End-User. Any illegal or criminal use of the database by the End-User is strictly prohibited.

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

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@article{zhang2022ground,
title = {Ground-based Cloud Detection using Multiscale Attention Convolutional Neural Network},
author = {Zhang, Zhong and Yang, Shuzhen and Liu, Shuang and Xiao, Baihua and Cao, Xiaozhong.},
journal = {IEEE Geoscience and Remote Sensing Letters},  volume = {19}, pages = {1--5}, year = {2022},  publisher = {IEEE}
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