Centre for Computer Vision & Pattern Recognition
National Institute of Technology, Rourkela
Odisha – 769 008, India

Note to IRSDBv1.0 Dataset

Detail of Capturing Device and Mechanism:

Capturing device 1: Samsung SM-J320F
Camera motion: NIL
Exposure time: 1/611 second
Focal length: 3m
Max aperture:2.3
Metering mode: Centre Weighted Average without flash.
Resolution: 3264×1836 pixels
Capturing device 2: Canon EOS 80D
Camera motion: NIL
Exposure time: 1/400 second
Focal length: 30mm
Color model: RGB
Resolution: 6000×4000 pixels

Detail of the Dataset:

Total images: 1692	Training images: 1397	Testing images: 294
# Classes: 49	Weather conditions: Varied	

Detail of Nomenclature:

Download IRSDBv1.0.zip in your computer and unzip the zipped folder. The zipped folder contains forty-ninety folders: 0000 through 0048. In test set each of the folder contains images belonging to that class along with their annotation in CSV file. In training set these classes are further divided into tracks which represent a single physical traffic sign. Thus each folder contains various number of tracks along with their annotation in CSV file.

Possible uses of the dataset:

This dataset is intended for research towards (i) traffic sign recognition, (ii) creating an exclusive Indian traffic sign for Indian users.

How to use:

The database is accessible on request for research purpose only by any individual/ non-commercial laboratory/academic institutions. Anyone who uses this dataset must cite the following article.

Citation:

Sanyal B., Mohapatra R.K., Dash R. (2020) Fully Annotated Indian Traffic Signs Database for Recognition. In: Pant M., Kumar Sharma T., Arya R., Sahana B., Zolfagharinia H. (eds) Soft Computing: Theories and Applications. Advances in Intelligent Systems and Computing, vol 1154. Springer, Singapore. `https://doi.org/10.1007/978-981-15-4032-5_63`

Link to the dataset: To access the dataset click here.

Collected by:

Banhi Sanyal (banhisanyal9@gmail.com, 517CS1009@nitrkl.ac.in)
Dr. Ramesh Kumar Mohapatra (mohapatrark@nitrkl.ac.in)
Dr. Ratnakar Dash (ratnakar@nitrkl.ac.in)