Dataset Description

Devichand Budagam

1 Details

The dataset consists of three main sections: `yolo_train_dataset`, `bb_u_net_dataset`, and `yolo_test_dataset`, each comprising specific folders and content.

1.1 yolo_train_dataset

This section contains three primary folders:

→ `test`

→ `train`

→ `valid`

Each of these folders is further divided into `images` and `labels`.

→ The `images` folder holds panoramic X-rays used as model inputs.

→ Within the `labels` folder, bounding box labels for each image are available in `.txt` format.

→ The name of a file is represented as `cate{category}-{ID}`; Ex: `cate1-00002`.

1.2 yolo_test_dataset

This section contains only the test folders:

→ `test`

The folder is further divided into `images` and `labels`.

→ The `images` folder holds panoramic X-rays used as model inputs.

→ Within the `labels` folder, bounding box labels for each image are available in `.txt` format.

→ The name of a file is represented as `cate{category}-{ID}`; Ex: `cate1-00002`.

1.3 bb_u_net_dataset

This section contains two folders:

→ `panoramic_x_rays`

→ `labels`

→ The `panoramic_x_rays` folder contains input X-ray images for the BB-Unet model.

→ The `labels` folder comprises ten sub-folders, each representing different tooth categories.

Inside each sub-folder of `labels`, there are instance segmentation masks provided in `.ome.tiff` format, totaling 32 masks per image, corresponding to individual labels.

Overall, the dataset encompasses panoramic X-ray images, their corresponding bounding box labels, and instance segmentation masks categorized by distinct tooth types, facilitating both object detection and instance segmentation tasks.