Tezpur University Gait in Covariates (TU-GaitCOV) Dataset

The sample dataset is a subset of the *Tezpur University Gait in Covariates* dataset, which contains 3483 silhouette image of human walking pattern from two viewing angles (45 and 90 degrees) for five subjects in three different surface covariate conditions (Concrete, Grass, and Stair). It also contained a CSV file consisting of training and test samples for 5 subjects, containing the dynamic key points generated irrespective of covariate conditions.

The *TU-GaitCOV* dataset contains a total of 36,235 silhouette images of human walking pattern in 3 surface covariate conditions from 2(two) different viewing angles. This dataset was collected from 50 subjects. The dataset also contained dynamic key points of each subject in .CSV files format as training and test set.

Nomenclature: The naming of the files of the gait pattern images are done in the following format:
File name: ID _SC _Ang _fn.png,
Where,
ID : subject ID (like S1, S2 etc)
SC : indicates the walking surface covariates condition(i,e Concrete(C), Grass(G), Stair(S)),
Ang : viewing angles (45 and 90 degree)
fn : the frame number(like frame1, frame2 etc)
png : Image format.

Example 1: Silhouette image
S1_C_0090_frame1.png is a sample of first frame in concrete surface of subject 1 captured in 90 viewing angles.

S2_G_0045_frame1.png is a sample of first frame in grass surface of subject 2 captured in 45 viewing angles.

Example 2: CSV file

Train.csv and Test.csv