

# Dataset description

This dataset comprises of heart rate variability (HRV) and Electrodermal activity (EDA) computed from the SWELL<sup>1</sup> and the WESAD<sup>2</sup> datasets. It comprises of the following three directories and sub-directories<sup>3</sup>

- 1) *interim* —contains the intermediate data that has been transformed directly from the raw datasets. The raw datasets are not included but they can be obtained from their respective publishers. This folder contains the following major contents:
  - a) *Labels* —the ground truth of the experiments. For the details of how these were obtained, please refer to the papers included in the root of this director.
  - b) *eda* —the raw eda signals
  - c) *rri* —the inter-beat (RR) interval extracted from the electrocardiogram (ECG) signal
- 2) *processed* —contains files that were computed from those in the intermediate directory facilitate the analysis
- 3) *final* —files that were used for creating the model. This directory contains two sub-directories:
  - *datasets* —contains the combined train, test and validation data used to create the model. For more details refer to section II of the paper "The influence of person-specific biometrics in improving generic stress predictive models"
  - *results* —contains the detailed results published in "The influence of person-specific biometrics in improving generic stress predictive models"

<sup>1</sup><http://cs.ru.nl/~skoldijk/SWELL-KW/Dataset.html>

<sup>2</sup><https://ubicomp.eti.uni-siegen.de/home/datasets/icmi18/>

<sup>3</sup>for more details, refer to the directory listing.txt file in the root of the dataset