

Assignment 5 : emotion prediction

Description:

Implement a set of regressors able to predict the mood of a music piece in terms of valence and arousal values.

Input:

As dataset use the **DEAM Dataset**, which is available at the link:

<http://cvml.unige.ch/databases/DEAM/>

Please read the manual linked in the above page.

The annotations you need to use are the one in the folder ***annotations averaged per song/song_level***. For each song you have to predict a 4 element vector:

[valence mean, valence std, arousal mean, arousal std]

Ignore the other labels contained in static_annotations_averaged_songs_2000_2058.csv file.

The results of the prediction must be reported in terms of **mean squared error** and **r2 score**, for each one of the 4 labels. Optionally you can add other metrics of your choice.

Output:

- a brief presentation of your work (max 5 minutes) that will be given to the class
- a more detailed report in which you illustrate and explain every step of your classification system and in which the results are shown and commented (max 8 pages) **to be delivered by May 14th**.
- a link to a repository containing the code (e.g. on GitHub) with minimal comments.