Facial Emotion Recognition: an evaluation approach

1 Internship Data

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2 Project Description

Automatic facial emotion recognition has been applied in several fields. Machine learning methods have been used in this task, generally using neural networks or hybrid approaches (HE; ZHANG, 2018; PITALOKA et al., 2017; Rodriguez et al., 2017; ZAFEIRIOU; ZHANG; ZHANG, 2015; ZHANG et al., 2018; PITALOKA et al., 2017). When evaluating these methods, some facial databases have been used: the JApanese Female Facial Expression (JAFFE) (Lyons et al., 1998), the Cohn-Kanade CK (KANADE; COHN; TIAN, 2000) and CK+ (LUCYEY et al., 2010).

The present project has the objective to evaluate machine learning methods for facial emotion recognition and to understand what methods obtain better results.

The student will participate in a development team to help in programming and testing tasks to compose the methods comparison.

References


