Special Issue

Recognition of Human Emotions Using Machine Learning and Deep Learning Algorithms

Message from the Guest Editors

Machine learning and deep learning techniques have already been applied to consistently recognize human emotion using physiological data, facial expression, body gestures, speech, and text. However, several challenges are still present. The learning model should be robust against high dimensional and heterogeneous data, unbalanced classes, and time ambiguity. For instance, modeling and predicting the emotional state over time is not a trivial problem, because continuous data labeling is costly and not always feasible. This is a crucial issue in real-world applications, where the labeling of the features is sparse and eventually describes only the most prominent emotional events. This Special Issue on "Recognition of Human Emotions Using Machine Learning and Deep Learning Algorithms" calls for manuscripts proposing new machine learning and deep learning methods, approaches, and applications able to face the challenges related to human motion recognition. Manuscripts focused on interpretable models which also provide explanations as to why and how the learning model achieved a prediction are particularly welcome.

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