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# Real-Life Facial Expression Recognition Systems: A Review

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**Abstract** Human to human communication system requires facial expressions which are the set of symbols. This has a great importance. For human computer interaction, a robust and adaptable facial expression recognition (FER) system is facilitated. Earlier, FER systems for recognition facial expressions have been developed which understand the real-time problems. Earlier systems were developed to adopt the discrete states emotion model to understand the FER system for expressions. This paper focuses on real-life challenges related with FER systems.

**Keywords** Affective computing · Facial expression recognition  
Classification · Feature extraction · Database

## 1 Introduction

This human expressions are complex to recognition during interactions. To express inner expressions or emotions, we follow the channel of facial communications. In the area of affective computing, it grasps and creates a model to show the significance of facial expression. The area of facial expression recognition (FER) is important and accountable when we communicate with digital devices which remain unnoticed in many applications. Affective aware systems are important for different expressions such as engagement, frustration [1], sadness, fear, and

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