

Plagio detectado: 25.32%

**Texto original:** The remaining challenges and corresponding opportunities in FER and the future directions for designing robust deep FER systems are also pinpointed.

**Texto plagiado:** The remaining challenges and corresponding opportunities in FER and the future directions for designing robust deep FER systems are also pinpointed.

**Texto original:** Then, a comprehensive review of FER methods is introduced, including the basic principles of FER (components such as preprocessing, feature extraction and classification, and methods, etc.)

**Texto plagiado:** Then, a comprehensive review of FER methods is introduced, including the basic principles of FER (components such as preprocessing, feature extraction and classification, and methods, etc.)

**Texto original:** from the pro-deep learning era (traditional methods using handcrafted features, i.e., SVM and HOG, etc.)

**Texto plagiado:** from the pro-deep learning era (traditional methods using handcrafted features, i.e., SVM and HOG, etc.)