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Enhanced Real-Time Facial Emotion Recognition System Using Google Net

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Abstract: Facial expressions are vital for conveying non-verbal information in human interactions, and automated facial expression recognition has gained significant interest in human-machine interfaces since the early 1990s. Traditional machine learning methods for expression recognition often rely on complex feature extraction techniques but tend to produce limited results. In this paper, we utilize deep learning advancements to introduce a Google Net-based architecture for automatic facial expression recognition. This approach eliminates the need for manual feature engineering by using Google Net's strong feature extraction capabilities to interpret the semantic information present in facial expressions.

Keywords: Facial Expressions, Automated Recognition, Deep Learning, Google Net, Convolutional Neural Network(CNN)



