MECG: Micro-expression Database Integrating Electrocardiogram Signals Release Agreement

Introduction

Micro-expressions (ME) are brief and spontaneous facial movements that reveal genuine human emotions. The first and foremost step for ME analysis is ME spotting, which aims to accurately identify frame sequences containing MEs within video data. Given that electrocardiogram (ECG) signals effectively capture variations in autonomic nervous system activity during emotional arousal, they hold promise as physiological cues for detecting MEs. We constructed a strictly synchronized multimodal dataset, termed MECG, comprising simultaneously recorded facial videos and ECG signals. Statistical analysis of this dataset revealed significant correlations between MEs and specific ECG signal features.

Content

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