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Facial Expression Recognition using OpenCV

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Abstract: These Human facial expressions carry several records visually in desire to articulately. Facial expression popularity plays an important characteristic inside facet the area of human-machine interaction. Automatic facial functions reputation device has many programs including, but now no longer limited to, human behaviour understanding, detection of highbrow disorders, and synthetic human expressions. Recognition of facial functions via computer with immoderate recognition fee remains a hard task. Two well-known strategies implemented regularly inside facet the literature for the automatic FER systems are based totally mostly on geometry and appearance. Facial Expression Recognition typically completed in four-ranges which includes pre-processing, face detection, characteristic extraction, and expression classification. In this mission we carried out diverse deep getting to know methods (convolutional neural networks) to identify the important thing seven human emotions: anger, disgust, fear, happiness, sadness, marvel and neutrality.

Keywords: Face detection, Feature extraction, Image Processing, Machine Learning, Convolutional Neural Network

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