

## FACE EXPRESSIONS IDENTIFICATION

### Abstract

In the last few years, face expression measurement has been receiving significant  
5 attention mainly due to advancements in areas such as face detection, face tracking  
and face recognition. For face recognition systems, detecting the locations in two-  
dimension (2D) images where faces are present is a first step to be performed before  
face expressions can be measured. However, face detection from a 2D image is a  
challenging task because of variability in imaging conditions, image orientation,  
10 pose, presence/absence of facial artefacts facial expression and occlusion. Existing  
efforts to address the shortcomings of existing face recognition systems deal with  
technologies for creation of three-dimensional (3D) models of a human subject's face  
based on a digital photograph of the human subject. However, such technologies are  
computationally intensive nature and susceptible to errors and hence might not be  
15 suitable for deployment. An embodiment of the invention describes a method for  
identifying face expressions of image objects.

FIG. 8