

Taiwan Corpora of Chinese Emotions and Relevant Psychophysiological Data -- A College-Student Database of Facial Expression for Basic Emotions

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The main goal of this study was to establish a database of facial expression for basic emotions among Chinese using college students in Taiwan. The study consists of two parts. In Part 1, we employed a standard procedure and collected a wide range of facial images representing expressions of basic emotions from 48 college students who served as models, half males and half females. Following that, we established a norm for each kind of basic emotions, consisting of relatively strong and relatively weak expressions, based on subjective behavioral ratings from another group of 170 participants. The results of rating were used to classify each facial expression into different categories in accordance with criteria of intensity and plurality, and the mean value of entropy also was calculated for each category of facial expressions according to intensity rating. In Part 2, we collected facial expressions of basic emotions from 65 college students (both graduate and undergraduate), 33 males and 32 females, who served as models under naturalistic settings. Experimental procedure was used to induce emotional reactions from the models, from which images of facial expressions were extracted. The naturalistic facial expressions were later rated by another group of 84 participants. As in Part 1, the results of rating were used to categorize facial expressions into basic emotions and to calculate their respective entropy values of each category. The database of facial expressions for basic emotions established in the present study can provide a valuable research tool for investigators who are interested in studying facial expressions and issues related to emotional processing.

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