

**CORPUS INFORMATION FORM****Name of the Corpus:** CCC-AC2006 (Affective Computing 2006)**IPR Holder:** Chinese Corpus Consortium (CCC)**Corpus Name:** Multi-Modality Affect (CCC\_AC2006\_MMA)*Check (x) or fill in the blank(\_\_\_\_)if appropriate.***Specify the modalities:****Video** ( x )

No. Channels ( 4 )

Description: Three channels are synchronized for recording the main subject in affective experiments, and one channel is used to recording the three subjects in the experiments.

**Audio** ( x )

No. Channels ( 1 )

Description: One channel audio is used to record the voice of the main subject via an Intel Microphone Array (Six microphones), which was directed to the main subject .

**Psychology** ( x )

No. Channels ( 2 )

Description: PAD based domain measurements are designed to estimate the emotional states of the main subject by his/herself and by other subjects on the spot. The PAD scale consists of three nearly independent dimensions that are used to describe and measure emotional states: pleasure-displeasure, arousal-nonarousal, and dominance-submissiveness."Pleasure-Displeasure"distinguishes the positive-negative quality of emotional states,"arousal-nonarousal"refers to a combination of physical activity and mental alertness, and"dominance-submissiveness"is defined in terms of control versus lack of control.

**Physiology** ( x )

No. Channels ( 16 )

Description: 16 channels (four channels per person) physiological recorder is used to record the subject's physiological reaction to the emotional stimulation. The four physiological channels are: ECG (Electrocardiogram), RSP (Respiration Pneumogram), PPG

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(Finger Pulse Plethysmogram) GSR (Galvanic Skin Response).

**Other, please specify** \_\_\_\_\_

**Corpus size:** \_\_\_\_\_ 2,000 Mega Bits

**Tag Information:**

Word segmentation: ( )

Part-of-Speech ( )

Other, please specify \_\_\_\_\_

Other, please specify \_\_\_\_\_

Other, please specify \_\_\_\_\_

Other, please specify \_\_\_\_\_

**A brief Description:**

This corpus was designed for Affective Computing (AC) or emotion recognition tasks. All of the data are recorded in well designed and controlled affective psychological experiments. It contains four subsets: 1. Four channels of video, where one channel is used to record the three assistant subjects in the emotional experiments, the other three channels are used to record the main subject's face (left, middle, right profiles), these three channels are used to reconstruct the 3D face and its emotional motion. 2. One channel of audio recorded by an microphone array, which is automatically focused on the speaker for reducing the noise of the experimental environment. 3. Sixteen channels of physiological data (4 channels per subject x 4 subjects). The four physiological channels are: ECG (Electrocardiogram), RSP (Respiration Pneumogram), PPG (Finger Pulse Plethysmogram) GSR (Galvanic Skin Response). All of the physiological data are sampled in 1.0 kHz. 4. One text contain the psychological experimental result in PDA (The PAD is the three nearly independent dimensions for measuring emotional states: pleasure - displeasure, arousal - nonarousal, and dominance - submissiveness. "Pleasure - Displeasure" distinguishes the positive-negative quality of emotional states, "arousal - nonarousal" refers to a combination of physical activity and mental alertness, and "dominance - submissiveness" is defined in terms of control versus lack of control.). This corpus can also be used for multi-channel or cross-channel affective computing research.