

Recognizing Facial Expressions

Lecture-12

- Facial expressions reflect the emotional stage of a person.
- Recognizing facial expression from video sequences is a challenging problem.
- Applications
 - Perceptual user interface
 - Video compression (MPEG-4)
 - Synthesis of facial expressions

Facial Expressions

- Joy
 - The eyebrows are relaxed. The mouth is open, and mouth corners pulled back toward ears.
- Sadness
 - The inner eyebrows are bent upward. The eyes are slightly closed. The mouth is relaxed.
- Anger
 - The inner eyebrows are pulled downward and together. The eyes are wide open. The lips are pressed against each other or opened to expose teeth.

Facial Expressions

- Fear
 - The eyebrows are raised and pulled together. The inner eyebrows are bent upward. The eyes are tense and alert.
- Disgust
 - The eyebrows and eyelids are relaxed. The upper lip is raised and curled, often asymmetrically.
- Surprise
 - The eyebrows are raised. The upper eyelids are wide open, the lower relaxed. The jaw is open.

FACIAL EXPRESSIONS



RAISE EYE BROWS

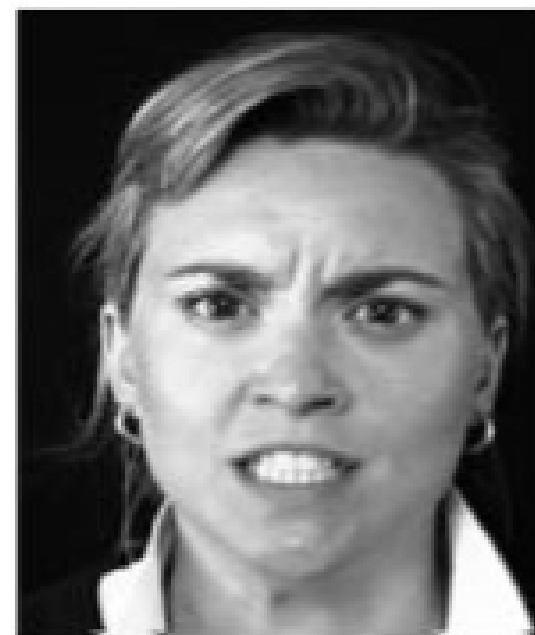


SMILE

FACIAL EXPRESSIONS



DISGUST



ANGER