

Recognizing Facial Expressions

Lecture-13

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Homework, Due November 11

- Lecture 9, slide 17, slide 22
- Lecture 12, page 21 and 22 (three problems).

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Program II, Due November 16

- Implement Mean shift Algorithm for tracking
 - Assume that the object location is given in the first frame of the seq
 - Demonstrate your program on known test seqs
 - Demonstrate your program on unknown test seqs in the lab
 - Write a short report: method, problems, results, observations.

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- 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

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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.

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 eyelids are relaxed. The jaw is open.