

TEST -2 EXAMINATION- APRIL-2023

COURSE CODE (CREDITS): 21B1WCI832 (3)

MAX. MARKS: 25

COURSE NAME: AFFECTIVE COMPUTING

COURSE INSTRUCTORS: Dr. Ruchi Verma

MAX. TIME: 1 Hour 30 Minutes

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

- Q1. Perceptive studies of emotional virtual characters may be considered at two levels. Discuss the levels at which emotional facial expressions and perception of a virtual character expressing emotions is evaluated in particular context of interaction. [5 marks, CO 2]
- Q2. Klaus Scherer's sequential checking theory is the most recent and elaborate appraisal theory to significantly impact affective computing. Elaborate and justify this statement. [3 marks, CO 2]
- Q3. Discuss the significant Computational Models for generating emotionally expressive movement. [3 marks, CO 3]
- Q4. How has the segmentation-and-classification approach effectively integrated dynamics into gesture descriptions? [3 marks, CO 2]
- Q5. Discuss the architecture for an emotional text-to-speech synthesis system. [3 marks, CO 2]
- Q6. Identify key challenges in the design of a multimodal affect recognition system for naturalistic human-computer interaction and human-robot interaction. [3 marks, CO 3]
- Q7. How is reverse appraisal applied to interpret the virtual character's emotional expression for deduction of information from the virtual character's facial expressions regarding its goal-conduciveness? [5 marks, CO 2]