



# GUJARAT TECHNOLOGICAL UNIVERSITY

(Established Under Gujarat Act. No.:20 of 2007)

Date: 26-06-2017

## CIRCULAR

Interested faculty members and students may register for the following webinar which is going to be held on Wed, Jun 28, 2017 3:30 PM - 4:30 PM IST.

**Virtual Academy: "Video Image Detection and Tracking using PCA and Contour Mapping Scheme"**

**Wed, Jun 28, 2017 3:30 PM - 4:30 PM IST**

**Registration URL: <https://attendee.gotowebinar.com/register/1551139710269855747>**

### **Description:**

Face detection and recognitions has an important role in cyber and surveillance and patient monitoring system and implementation constraints limit their performance. As compared with other biometrics systems like fingerprint/palm print and iris based recognition, this work has distinct advantages due to its non invasive& non-contact process. Face images are captured from a distance, and the identification does not require interaction with the subject. Similarly, sliced video inputs has received much attention due to its ability to preserve data privacy and still support indexing, searching, mining and other required operations (essential to medical domain). In this context, in this research work, novel algorithms interleaved with h sliced algorithm are presented with focus on faster retrieval schemes to suit real-time implementation.

This proposed work is applied to patient monitoring systems to detect backward and forward fall of patients in hospitals. Pose variation creates an artefact in face detection and recognition. This effect is taken care to detect the images and recognizes the correct image even with changes in the posture. Nevertheless, existing fall detection research is facing various limitations. This study aimed to develop and validate a new fall detection algorithm using 2-D information (i.e., trunk angular velocity and trunk angle). The angular kinematics was measured using inertial measurement unit during slip-induced backward falls and a variety of daily activities.

### **Presenter:**

Dr. T.S.Arulananth,  
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Sd/-  
Registrar (I/c)