KKR & KSR INSTITUTE OF TECHNOLOGY &SCIENCES

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Department of Computer Science and Engineering

Guest Lecture
On
Video Content Analysis

Date: 30 June, 2017

Time: 11:30 AM to 4:30 PM

Venue: KKR & KSR INSTITUTE OF TECHNOLOGY & SCIENCES, Vinjanampadu.

Event Coordinator: Dr. Ch. Aruna

Resource Person: Dr. C. Krishna Mohan, Associate Professor, IIT Hyderabad

Event Description:

Video content analysis (also **Video content analytics**, **VCA**) is the capability of automatically analyzing video to detect and determine temporal and spatial events.

This technical capability is used in a wide range of domains including entertainment, health-care, retail, automotive, transport, home automation, flame and smoke detection, safety and security. The algorithms can be implemented as software on general purpose machines, or as hardware in specialized video processing units.

Much different functionality can be implemented in VCA. Video Motion Detection is one of the simpler forms where motion is detected with regard to a fixed background scene. More advanced functionalities include video tracking and ego motion estimation.

Based on the internal representation that VCA generates in the machine, it is possible to build other functionalities, such as identification, behavior analysis or other forms of situation awareness.

VCA relies on good input video, so it is often combined with video enhancement technologies such as video denoising, image stabilization, unsharp masking and super-resolution.

He has explained a few algorithms used in pattern recognition and video content analysis. And he shows some videos to detect a person when doing illegal activities in motion.

The III year CSE students participated in the guest lecture and they got clarifications on the topic in real world situations.

At the end of session, Dr. C. Krishna Mohan, Assoc. Professor also offered an internship to the III year students if they are interested in the Image Processing domain.

H.O.D