



DEPARTMENT OF BIOMEDICAL ENGINEERING

REPORT

Webinar to our faculties and students on the topic “Medical Imaging Techniques and Its Applications” on 16.11.2020.

Recording

You are viewing Sandhiya Ravi's screen View Options

Why we need image processing?

- ▶ We want to get good quality of image by enhancement for better look.
- ▶ Image processing is used for computer application.
- ▶ Computer processing is used for image enhancement, restoration, segmentation, description, recognition, coding, reconstruction, transformation, compression, efficient storage and transmission
- ▶ New mobile application, satellite images, quality control, assembly automation....
- ▶ To store an image in a less disc space and for less band width channels.

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Dr. J. Sivakamasu...

15:40
16-11-2020

The Department of biomedical Engineering conducted a Webinar to our faculties and students on the topic “Medical Imaging Techniques and Its Applications” on 16-11-20.

The guest speaker **Dr. SIVAKAMASUNDARI JOTHI** Associate Professor Department of Biomedical Engineering, Jerusalem College of Engineering.

The screenshot shows a Zoom meeting in progress. The main content is a slide titled "Need for image processing in Medicine". The slide text reads: "Main tasks performed by the image processing unit in medicine are" followed by a bulleted list:

- Interfacing analog outputs of sensors such as microscopes, endoscopes, ultrasound etc., to digitizers and in turn to Image Processing systems.
- Image enhancements.
- Changing density dynamic range of B/W images.
- Color correction and manipulating of colors within a color image.
- Contour detection and area calculations of the cells of a biomedical image.
- Restoration and smoothing of images.
- Registration of multiple images and creating mosaic of multiple images.
- Construction of 3-D images from 2-D images.
- Generation of negative images.
- Zooming of images.
- Removal of artifacts from the image.

The Zoom interface includes a top bar with browser tabs, a meeting title "You are viewing Sandhiya Ravi's screen", and a "View Options" dropdown. On the right, a "Participants (35)" panel shows a list of attendees, including A.Padmapriya, Durgalakshmi, Md Salam, Dharanya, Sarath..., M.Ramiya, Mohamed, Akshita G K, Ishwarya, SHARIF, Lingadharini, QCOM-BTD, SRIRANJANI T, R. C. SUREKHA, and M. The bottom toolbar contains controls for Unmute, Start Video, Participants (35), Q&A, Share Screen, Chat, More, and Leave. The system tray at the bottom right shows the time as 15:43 on 16-11-2020.

This Webinar insisted on the importance of medical imaging and its applications. The speaker gave few informative knowledge about algorithms & Applications. The speaker also discussed more informations about current pandemic situations about covid-19 and she also discussed about thermal camera covid detection. The webinar is helpful for students to do more projects in covid-19 related cases.