

# Guest Lecture Report

*Topic: “Advance DSP and its application”*

By

**Mr. Jai Mangal Singh**

Executive Officer  
Redton Education Service  
Bangalore



Date: 27.10.2018

Time: 11.30 AM to 2.30 PM

Venue: ALH 312 and HDL Lab, SCE Bangalore.

Digital image processing is the use of computer algorithms to perform image processing on digital images. As a subcategory or field of digital signal processing, digital image processing has many advantages over analog image processing. It allows a much wider range of algorithms to be applied to the input data and can avoid problems such as the build up of noise and signal distortion during processing. Since images are defined over two dimensions (perhaps more) digital image processing may be modelled in the form of multidimensional systems.

In particular, digital image processing is the only practical technology for: Classification, Feature extraction, Pattern recognition, Projection, Multi-scale signal analysis. Digital image processing is the manipulation of images by computers, with application in varied domains, including industrial, medical and scientific research. There is tremendous upsurge in the use

of remote sensing with digital imaging techniques for military applications. The main aim of this lecture is to address problems, methodology, algorithm and tools related to the image capture, processing and control. The talk will be a platform to venture into the areas of security, surveillance, document imaging, biomedical and many others. Image Processing is amongst some of the rapidly growing technologies today, with its applications in various aspects of businesses. Image Processing forms core research area within engineering and computer science disciplines too.

The session followed by question and answers where students interacted on questions about implementation of projects in the campus. They also discussed about their preparation for getting into this domain in future. The talk was useful and well appreciated by staffs and the students.



*Students and faculties attending sessions of Mr.Jai Mangal Singh*

***Prof. Vani V & Prof. Vani A***  
*Guest Lecture/Workshop/FDP Co-ordinators*

***Prof. Sandhya Rani MH***  
*HOD ECE*