

Report

On a Distinguished Lecture talk by

“Imaging Arithmetic: Physics U Math > Physics + Math”

Organized under

IEEE Signal Processing Society Distinguished Lecture Program

Sarvajanik College of Engineering and Technology

Date : 20th December 2019

Time : 1:30 PM to 3:30 PM

Venue: AV Room EC Dept., SCET, Surat.

Speaker: Dr. Gaurav Sharma (PhD, North Carolina State University), Professor, Electrical and Computer Engineering Department, Goergen Institute for Data Science at the University of Rochester.

Coordinator:

Prof. Chirag N. Paunwala, Professor, EC Department, SCET, Surat

Prof. Neeta Chapatwala, Asst. Prof., EC Dept., SCET, Surat.

Department of Electronics and Communication Engineering have organized a DL Talk on "**Imaging Arithmetic: Physics U Math > Physics + Math**" for the final year PG and UG students under IEEE Signal Processing Society Distinguished Lecture Program. The speaker of the talk was Prof. Dr. Gaurav Sharma (PhD, North Carolina State University), Professor, Electrical and Computer Engineering Department, Goergen Institute for Data Science at the University of Rochester. Talk was arranged on 20th DEC 2019 from 1:30 PM onwards in AV Room of Electronics Department for PG students, final year UG students and faculty members with objective of providing knowledge to researchers for formulating a research problem and thereby providing an optimum solution for the same.

The event was started by brief introduction of speaker by Prof. Pritesh Saxena. After floral welcome of speaker by Prof. Dr. Maulin Joshi talk was started. Dr. Gaurav highlighted specific examples of problems in electronic imaging for which the combination of physical insight, mathematical tools, and engineering ingenuity leads to particularly elegant and effective solutions. He illustrated the above ideas in some depth using a number of case studies drawn from his research in electronic imaging, in each case highlighting how the combination of physical modeling/insight with mathematical analysis enables solutions that each of these tools alone is unable to address adequately

The examples cover a wide range of applications, including methods for show-through cancelation in scanning, color barcodes for mobile applications, print watermarks detectable

by viewers without using any viewing aids, multiplexed images that revealed under varying illumination, improved metrics for the accuracy of color capture devices, and color halftone separation estimation from scans. A talk was ended by presenting memento to speaker by Dean R&D Prof. Chirag Paunwala as a token of memory.

Students and faculties enjoyed a very informative and technical talk. At the end faculty interaction was held followed by high tea.

Some glimpse of the talk are as under:



Organized by:

Sarvajanik College of Engineering and Technology, Surat.

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