



SCDT – FlexE Centre Webinar Series

The webinars aim to bring together researchers in Flexible Electronics and allied areas from across India (and other countries) on a single platform to promote professional interaction.

Abstract of the Webinar

Thin film pressure sensors are an important class of sensor systems because they provide an easy way to interact with the physical world. Piezoresistive thin films are one way in which flexible pressure sensors can be fabricated. These thin films change their resistivity upon application of pressure. In this talk, we will discuss the ways in which flexible sensor systems can be fabricated using piezoresistive thin films. We will also look at ways of creating piezoresistive thin films using *in situ* polymerization. Various applications of these thin films will also be discussed.

Information about the speaker

Aftab M. Hussain is currently an Associate Professor at the Center for VLSI and Embedded Systems Technology (CVEST) International Institute of Information Technology (IIIT) Hyderabad, and the Principal Investigator of the PATRIoT Lab. Aftab earned his Bachelor's degree from IIT Roorkee, M.S. and Ph.D. from KAUST, followed by postdoctoral fellowship at Harvard University. Aftab has more than thirteen years of experience working with device fabrication, thin film characterization and device testing, along with sensor applications in IoT and related areas. He has more than 100 scientific publications, holds four granted US patents, along with eight others in various stages of filing. He has authored the textbook titled, "Introduction to Flexible Electronics", with CRC Press. He is a member of the Executive Committee (ExeCom) of IEEE CAS/EDS joint chapter in Hyderabad and an Associate Editor (Flexible Electronics) at Frontiers of Electronics journal.

Webinar by



Dr. Aftab M. Hussain

Center for VLSI and Embedded Systems
Technology
International Institute of Information
Technology Hyderabad
on

"Fabrication and Applications of Flexible Piezoresistive Sensors"

Date: 16th April, 2024

Time: 7:30 PM to 8:30 PM

Visit www.iitk.ac.in/scdt/webinars.html
to access the zoom link to join the
webinar.

The event will be chaired by

Dr. Sanjiv Sambandan

Indian Institute of Science, Bangalore