

Subject **[Scdt] SCDT-FlexE Centre Weekly Tuesday Seminar-20.07.2021 at 7:30 PM**
From SCDT, IIT Kanpur <scdt@iitk.ac.in>
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To <scdt@lists.iitk.ac.in>
Date 2021-07-19 11:51
Priority Normal

Zoom Meeting for joining the webinar:

<https://zoom.us/j/99863678964?pwd=ZVJvdFN5T1UyQjdZbmxwS0htRUJOUT09>

Meeting ID: 998 6367 8964

Passcode: 064022

Dear Colleagues,

I would welcome you to attend the SCDT-FlexE Centre Weekly Tuesday Seminar by Mr. Amit Sethi and Dr. Jyoti Prakash Naidu. Their team from JK Lakshmipat University, Jaipur was one of the winners of the Innovation Challenge that the FlexE Centre organised earlier this year. This seminar may be a good opportunity to know about the idea the team is pursuing. The details of the seminar (to be given in webinar format) are given below:

Title: "Flexible Tactile Sensors For Health Care"

Date: 20th July, 2021 (Tuesday)

Time: 7:30 PM to 8:30 PM

Presentation will be on zoom. The link is given above.

The webinar abstract and a brief bios of the speakers are given below. The names of the other team members are mentioned. Please join if you are in a position to do so.

With regards
S.K.I.

Abstract of talk by Mr. Amit Sethi and Dr. Jyoti Prakash Naidu:

The interactive discussion is proposed to begin with a review of the background of the investigations being conducted by the team members in view of the state-of-the-art. This will be followed by introduction of the research challenges being addressed. For example, flexibility is of importance for prosthetics for better adaptability, and creativity in product design. Value engineering enabling low cost affordable solutions for practical adaptability in products and services is one of the needs to be fulfilled through applied research solutions. The research at JKLU has been initiated with seed funding at the university and simulations for the sensor array have been done. Two of the specific applications, namely, Integration of Tactile Array Sensor with prosthetic limb, and Application of Flexible Tactile Sensing approach for Bed Sore causing pressure monitoring and avoidance will be briefly introduced and collaboration opportunities for joint proposals with peers invited/ explored.

About the Speakers:

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Amit Sethi is an alumni of the College of Military Engineering, Pune and Military College of Telecommunication Engineering at Mhow under the Jawaharlal Nehru University. Before joining JK Lakshmipat University, Jaipur as a Masters student in the area of Data Science, he has completed the degree of Master of Science in Defence and Strategic Studies at the Defence Services Staff College Wellington (Nilgiris) under the University of Madras, Tamil Nadu. His present research interest is Data Sciences with particular applications in the areas of flexible sensor lamina related to health care monitoring and preventive interventions.

Dr. Prakash Naidu (Ph. D. University of Toronto. M.Tech. IIT Madras, PGDB Bangalore) is currently Dean (R&D) at JKLU with vast experience in both industrial R&D and academia for more than 3 decades, with international expertise. He has worked in or has been affiliated with leading institutions, laboratories, and industry as well as start-ups and SMEs in the UK (University College London, University of Derby), USA (MIT-Spin-off Companies at Boston, University of Phoenix- Arizona), Canada (University of Toronto and Spin-offs, Meritus University, Carleton University), and India (Centre for Artificial Intelligence & Robotics: CAIR-DRDO under late Dr. APJ Abdul Kalam, Institute for Robotics and Intelligent Systems: IRIS, HMT, VTU, MSRUAS, Presidency) in different capacities ranging from R&D Engineer to HOD, Director, Dean, Advisor.

Dr. Naidu has vast hands-on design, development, and product realization experience ranging from manufacturing systems for specialized aerospace components to biomedical devices with several patents issued or under process; one of his major achievements being development of pioneering DNA Arraying System for biomedical applications culminating in sale of technology to industry for considerable fees and royalty. He is a licensed member of the Association of Professional Engineers of Ontario, Canada with Certificate of Authorization as a Consultant. He is also member of the American Society of Mechanical Engineers (ASME). He is Member of the Education Committee of the PHD Chamber of Commerce and Industry (PHDCC).

Other members: Dr. Devika Kataria, Associate prof at JK Lakshmipat University; Dr. Gustavo Sanchez, an academic and consultant; and Dr. Mandayam A. Srinivas, a Vajra prof at IIT Madras.

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