

Talk for Short Course on "Flexible Electronics",
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“Healthcare Solutions: Sensors and Sensing Systems”

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Abstract

Sensors and sensing systems play an important role in providing healthcare solutions. There is a need to decentralize healthcare and point-of-care (PoC) technologies enable this decentralization. A brief overview of the some PoC technologies will be provided and a focus on the current wearable systems. Then the work on sensors here will be presented. There are various types of sensors at various stages of development - gas sensors, aqueous ion sensors, biosensors (of different types). The scientific and engineering studies that have helped generate the knowledge to build the prototypes will be highlighted. In the Centre, we are taking the sensor components along the Technology Readiness Levels (TRLs). The next talk, by Mr. Devendra Maurya, will provide more details on the methods for this.