

Soft Sensors on Polymeric Substrates for Healthcare and Aged Care Applications

Dr. Madhu Bhaskaran
RMIT University, Australia

Extended Abstract

Imagine wearable sensors which you place on your skin – this band-aid like patch could measure your body parameters offering you a window to your health. Imagine nearable sensors embedded into a mattress cover which can non-invasively track a person's presence, position, and posture in bed overnight in residential aged care facilities. These nearable and wearable sensors on polymer substrates are conformal, un-feelable and unbreakable. I will present the fundamental research and breakthroughs which has led to these technologies and the research challenges overcome. Following this, our collaborative efforts to translate and commercialise with industry, manufacturing and design partners will be highlighted.