

Research Seminar: Intelligent Skin Electronics for Healthcare Monitoring

Research Centre for Green Energy, Transport and Building (RCGETB)
Research Centre for Advanced Design, Materials and Manufacturing Technologies (RCADMM)

Date: 27 March 2024 (Wednesday)

Time: 2:30 pm - 3:30 pm

Venue: Online via MS Teams

Language: English



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Lecturer

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Biography

Dr. Rui Shi is a lecturer in the Division of Science, Engineering and Health Studies (SEHS) at PolyU CPCE. She obtained her B.Eng. and M.Eng. degrees in Power Engineering from Wuhan University (WHU), China, in 2012 and 2014, respectively. She completed her Ph.D. in Mechanical Engineering at The University of Hong Kong (HKU) in 2021. Before joining PolyU CPCE, she served as a postdoctoral fellow in the Department of Biomedical Engineering at City University of Hong Kong. Her research interests include Microfluidic Technologies, Micro/ Nano-Materials, Organic Electrochemical Transistors, and Skin-Integrated Electronics.

Abstract

Soft bio-integrated electronics, with their softness, lightweight, and stretchable properties, have emerged as key players in biomedical engineering. This report explores their integration with biological tissues, enabling precise biosignal measurement. Focusing on materials, device structures, power delivery, and communication, it lays the foundation for wearable biosensors capable of analyzing sweat analytes like metabolites and electrolytes. Clinical studies showcase their potential in physiological monitoring, disease diagnosis, and personalized medicine. These advancements herald a new era of healthcare, offering continuous and accurate monitoring for improved health outcomes.

All are welcome!
Register Now!



Please make the reservation at: <https://forms.office.com/r/hvc2FWHqqR>

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