

# "Innovating Health" Distinguished Speaker Seminar Series

## Professor George Malliaras

Prince Philip Professor of Technology  
Director, Institute for Biomedical Innovation  
Department of Engineering, Electrical Engineering Division  
University of Cambridge, UK



### Reading the Brain and Body: New Frontiers in Surface Electrophysiology

6 FEB 2026, FRI, 4 PM - 5 PM

NUS, College of Design and Engineering, Building E7, Level 3, Seminar Room 4

Hosted by: Dr Liu Yuxin, iHealthtech Principal Investigator



Our ability to listen to the body's electrical activity is improving at a remarkable pace. Novel recording technologies now let us capture the brain's complex signals through miniaturised, flexible grids placed on its surface, while equally sophisticated skin-mounted sensors can track subtle physiological changes during daily life. Together, these approaches paint a richer picture of how our nervous system communicates and adapts. Applying the same ideas to the spinal cord and peripheral nerves led to the development of gentle surface electrodes that can both record and stimulate activity with surprising accuracy. Such systems can already predict how we move or even help restore control of internal organs through precise electrical cues. I will discuss how we are closing the gap between invasive and non-invasive techniques, bringing us closer to practical tools for rehabilitation, prosthetic control, and continuous health monitoring.

**Speaker Biography** | George Malliaras is the Prince Philip Professor of Technology at the University of Cambridge (UK) and serves as director of the Institute for Biomedical Innovation. Before joining Cambridge, he was a faculty member at Cornell University (USA), and School of Mines of St. Etienne (France). George's research on bioelectronics has been recognised with awards from the European Academy of Sciences, the Materials Research Society, the New York Academy of Sciences, the US National Science Foundation, and DuPont. He received an Honorary Doctorate from the University of Linköping (Sweden) and is Fellow of the Royal Society, the Materials Research Society, Academia Europaea and the European Academy of Sciences.



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