

Plenary Speaker 3: Associate Prof. Ir. Dr. Norrima Mokhtar (Applied Control and Robotics Laboratory, Department of Electrical Engineering, Universiti Malaya, Malaysia)

Title: Integration of Human-Device Interface: Transforming the Future of Interaction



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Education: Earned a Bachelor of Engineering (B.Eng) in Telecommunication Engineering from Universiti Malaya in 2000. She was awarded the Panasonic Scholarship to pursue her Master of Engineering (M.Eng) at Oita University, Japan (2003-2006). Additionally, she received the SLAB/SLAI scholarship to complete her Ph.D. in Electrical Engineering at Universiti Malaya (2008-2012).

Employment: Between 2000 and 2002, she worked as a Telecommunication Engineer at Echobroadband Sdn. Bhd., where she contributed to upgrading cable TV networks to hybrid fiber coaxial networks in Köln, Germany. Since 2003, she has built a distinguished academic career at Universiti Malaya, where she currently serves as an Associate Professor.

Abstract: This session explores advancement in Human-Device Interface technology, focusing on emerging trends like gesture control, brain computer interfaces, eye movement



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EOG, eye movement via camera and many more effortless inputs to enable user experience and action. Artificial intelligent techniques, whether supervise, semi- supervise and autonomous, play a major role in processing the input to classification categories for action and data monitoring. Potential applications include automation, healthcare, education, entertainment and the increasingly popular gaming industry. These technologies are redefining the Human-Device collaboration and significantly enhancing user experiences.