

SEMINAR ANNOUNCEMENT

**DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
COLLEGE OF DESIGN AND ENGINEERING**

Website: <https://cde.nus.edu.sg/ece>

Area: Microwave & Radio Frequency

Host: Associate Professor Koen Mouthaan

TOPIC	:	Radar for Assisted Living: An Overview
SPEAKER	:	Dr Julien Le Kernec Senior Lecturer James Watt School of Engineering, University of Glasgow
DATE	:	Thursday, 5 October 2023
TIME	:	2.00PM to 3.00PM
VENUE	:	Block E1, E1-06-05 College of Design and Engineering, National University of Singapore

ABSTRACT

The seminar will discuss radar for assisted living. First, the context of assisted living and the urgency to address the problem will be described. The second part will give an overview of existing sensing modalities for assisted living and explains why radar is an upcoming preferred modality to address this issue. The third section presents developments in machine learning that helps improve performances in classification especially with deep learning with a reflection on lessons learned from it. Finally, the presentation will conclude with open challenges and future developments.

BIOGRAPHY

Dr. Julien Le Kernec received his B.Eng. and M.Eng. degrees in electronic engineering from the Cork Institute of Technology, Ireland in 2004 and 2006, respectively, his Ph.D. degree in electronic engineering from University Pierre and Marie Curie, France, in 2011, and his "Habilitation a Diriger des Recherches" from University Cergy-Pontoise, France, in 2022. He held a post-doctoral position with the Kuang-Chi Institute of Advanced Technology, Shenzhen, China, from 2011 to 2012. He was a Lecturer with the Department of Electrical and Electronic Engineering, The University of Nottingham Ningbo China, from 2012 to 2016. He is currently a Senior Lecturer with the School of Engineering in the Autonomous Systems & Connectivity Group, University of Glasgow. He is also an adjunct associate professor in University Cergy-Pontoise in France in the ETIS (Information and Signal Processing group). His research interests include radar system design, software defined radio/radar, signal processing, and health applications.

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