



THE UNIVERSITY OF
SYDNEY



IEEE NSW JOINT CHAPTER PELS/IES/IAS

Research Seminar

Past, Present and Future of Wireless Charging for Portable Electronics

Prof. Ron Hui, FEng, FTSE, FIEEE, FNAI
University of Hong Kong

Time and Date:

11:00 – 12:00 Thursday 7 February 2019

Venue:

Sir William Tyree Auditorium (Room 217), Building J03
School of Electrical and Information Engineering
University of Sydney, NSW 2006
(See attached map)

Abstract:

This talk will start with a brief historical review of “near-field magnetic” wireless power transfer dating back from Nicolas Tesla’s work a century ago. It will highlight how magnetic resonance (a technique used by Tesla and many others up to the 1990s) is not a recent invention. It will also explain why WPT became feasible again since 1980s with some highlights of landmark examples. The final part of the talk will focus on the latest development of international WPT standards and future developments for wireless charging of “portable” electronics.

Biography:

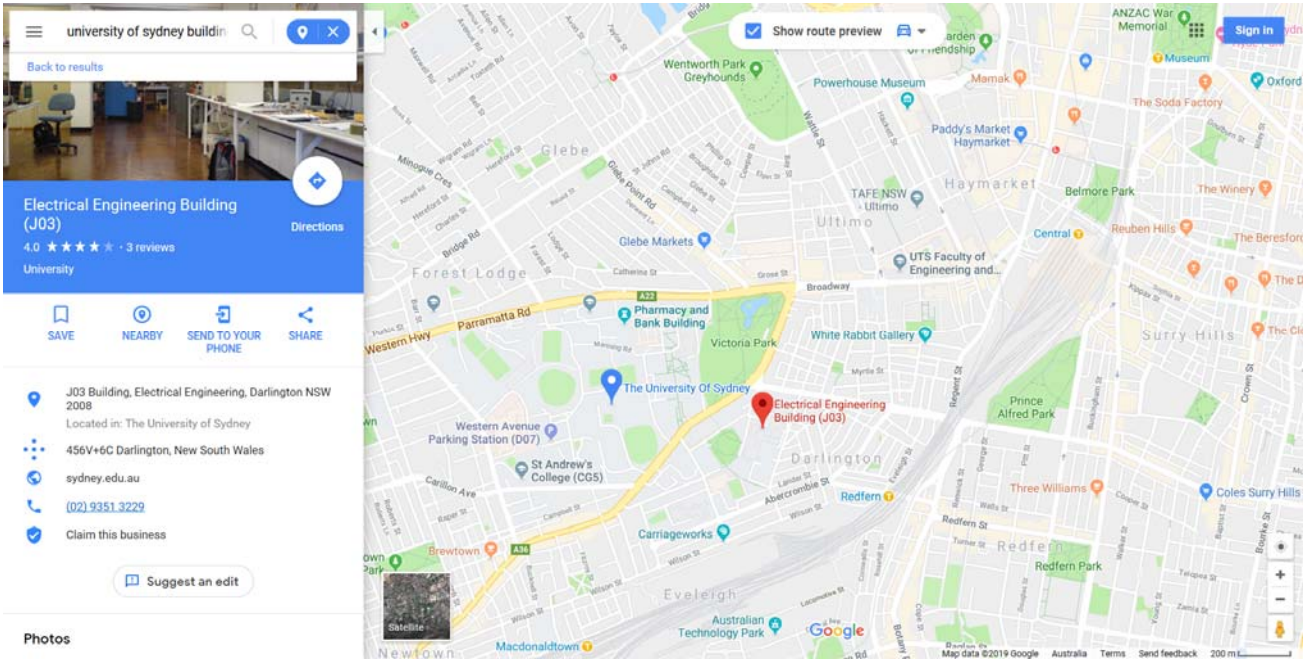
Prof. Ron Hui obtained his Ph.D degree at Imperial College London in 1986. He has held academic positions at Nottingham University, UTS, Sydney University and CityU HK. Currently, he is a Chair Professor of Power Electronics at both of the University of Hong Kong and Imperial College London. At HKU, he holds the Philip Wong Wilson Wong Professorship of Electrical Engineering.

He has published over 260 refereed journal papers and has over 60 patents adopted by industry worldwide. His inventions have underpinned key dimensions of the world’s first wireless power standard Qi, launched in 2010 by the Wireless Power Consortium with over 650 company members including Apple, Samsung etc. He is the recipient of the 2015 IEEE William Newell Power Electronics Award, 2010 IEEE Rudolf Chope R&D Award and 2010 IET Crompton Medal. He is a Fellow of the IEEE, Australian Academy of Technology & Engineering, the US National Academy of Inventors and the Royal Academy of Engineering, UK.

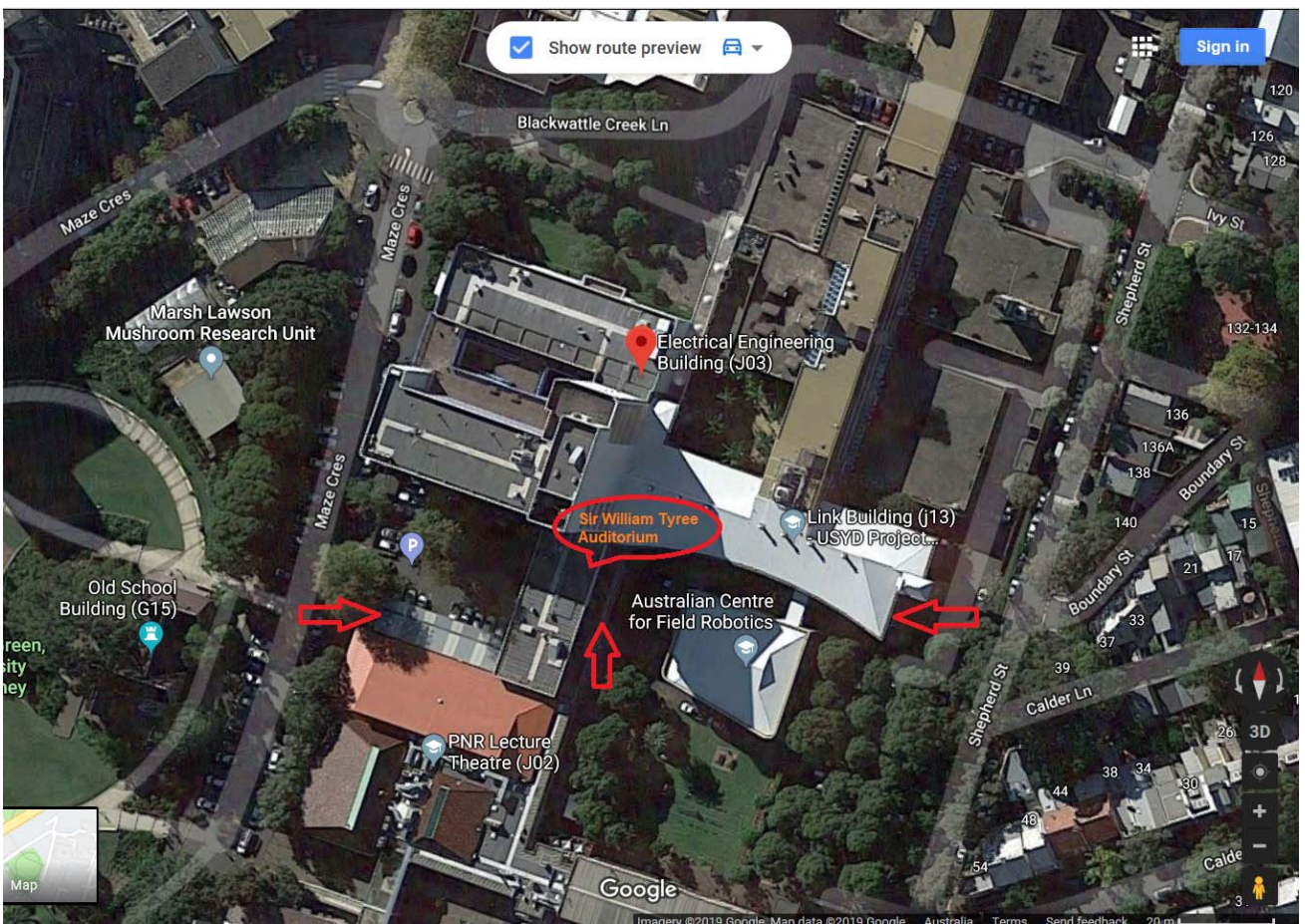
Enquiry:

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Maps of Venue:



[https://www.google.com/maps/place/Electrical+Engineering+Building+\(J03\)/@-33.8926202,151.1982569,15.23z/data=!4m8!1m2!2m1!1suniversity+of+sydney+building+j03!3m4!1s0x6b12b1d6bca13bd9:0x43ca69e7b2071b6c!8m2!3d-33.8893878!4d151.1935607](https://www.google.com/maps/place/Electrical+Engineering+Building+(J03)/@-33.8926202,151.1982569,15.23z/data=!4m8!1m2!2m1!1suniversity+of+sydney+building+j03!3m4!1s0x6b12b1d6bca13bd9:0x43ca69e7b2071b6c!8m2!3d-33.8893878!4d151.1935607)



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Because of the construction work, please access the venue by following the arrows.