ENGINEERS AUSTRALIA

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Joint Institution Lecture Series

Electromagnetic Compatibility for Gen Y-Fi

Hosted by: ASDE and Elect & ITEE Joint Institutions (EA, IEEE and IET)

Joint Institution Lecture Series

Electromagnetic Compatibility for Gen Y-Fi: Interference to Digital Communications

Electromagnetic Compatibility (EMC) refers to the ability of electronic systems to coexist without loss of performance due to unplanned electromagnetic interactions. EMC standards address the two parts of the engineering problem with tests and limits for electromagnetic emissions and immunity. Immunity tests exist to ensure systems are sufficiently robust to tolerate transmitters in their environment, while emission tests exist to limit the amplitude of unintentional emanations that could interfere with nearby equipment, particularly radio receivers.

This presentation examines interference pathways and contrasts interference mechanisms between legacy radio receivers and digitally modulated spread spectrum systems. A case study of potential interference on a small UAV is presented and reasons why there wasn't any are discussed. Finally, considerations of the implications for electromagnetic compatibility standards into the future are made.

About the Speaker

Dr. Paul Kay, Electromagnetic Test, Air Warfare Engineering Squadron, Air Warfare Centre, RAAF

Paul has worked in military and civilian EMC for almost 20 years and represents Defence on TE-003, the Australian national standards committee for electromagnetic compatibility.

VENUE

Harricks Auditorium
8 Thomas Street
Chatswood NSW 2068

DATE & TIME

Thursday 10 August 2017
5.30 pm for a 6.00 pm start

Light refreshments will be provided prior to the presentation.
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IEEE & IET Members: Free
ASDE Members: Free
Non-members: $30

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