

Channel Modelling for Visible Light Communication Systems



Speaker: Ahmed Al-Kinani
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Day/Time: Friday, Nov. 10th | 2:00 PM
Location: Earl Mountbatten Building
Room: 2.33

*Seminar is open to the public. Free admission.
Light refreshments will be served following the talk.*

Abstract:

Visible Light Communications (VLCs) have been identified as a potential solution for mitigating the looming Radio Frequency (RF) spectrum crisis. Having the ability to provide illumination and communication at the same time, this technology has been considered as one of the most promising communication technologies for future wireless networks. For the sake of the VLC system design and performance evaluation, it is indispensable to develop accurate, efficient, and flexible channel models, which can fully reflect the characteristics of VLC channels. This talk will cover the existing and the new developed VLC channel models.

Bio:

Ahmed Al-Kinani was born in Baghdad, Iraq. He received the BSc and MSc degree in Laser Physics and Optical Communications in 2001 and 2004, respectively from University of Technology, Baghdad, Iraq. From 2005 to 2012, he worked in Ministry of communication (MoC) in Iraq. Since September 2013, he has been a PhD student at Heriot-Watt University and University of Edinburgh, Edinburgh, UK. His main research interests include VLC technology, in particular VLC channel modeling and simulation.