



# IEEE WA Chapter Seminar

## Millimeter-Wave Communications for 5G

Prof Jinho Choi

**16th October 2015**

**3 to 4pm**

Engineering Pavilion  
Building 216  
Room 206

Brand Drive  
Curtin University

Enquiries: Robyn Cornwell  
Phone: 9266 2600  
E-mail: [r.cornwell@curtin.edu.au](mailto:r.cornwell@curtin.edu.au)

### Abstract:

For 5G cellular systems, millimeter wave (mm-Wave) has been considered due to the availability of a much wider bandwidth, which is essential to provide high data rate services. However, there are a number of challenges due to high path loss in mm-Wave. In this talk, we discuss differences between micro-wave channels and mm-Wave channels and various issues including the channel estimation for mm-Wave cellular systems where beamforming plays a key role in providing reliable communications.

### Biography:

Jinho Choi was born in Seoul, Korea. He received B.E. (magna cum laude) degree in electronics engineering in 1989 from Sogang University, Seoul, and the M.S.E. and Ph.D. degrees in electrical engineering from Korea Advanced Institute of Science and Technology (KAIST), Daejeon, in 1991 and 1994, respectively. He is with Gwangju Institute of Science and Technology (GIST) as a Professor. Prior to joining GIST in 2013, he was with the College of Engineering, Swansea University, United Kingdom, as a Professor/Chair in Wireless. His research interests include wireless communications and array/statistical signal processing. He authored two books published by Cambridge University Press in 2006 and 2010. Prof. Choi received the 1999 Best Paper Award for Signal Processing from EURASIP, 2009 Best Paper Award from WPMC (Conference), and is Senior Member of IEEE. Currently, he is an Associate Editor of IEEE Communications Letters and an Editor of Journal of Communications and Networks (JCN) since 2005 and served as an Associate Editor of IEEE Transactions on Vehicular Technology from 2005 to 2007 and ETRI journal.