



PALESTRAS INTERNACIONAIS 2015

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Título: **5G CELLULAR: KEY ENABLING TECHNOLOGIES AND RESEARCH CHALLENGES**

Data e Hora: **9 de Novembro de 2015, das 14:00 às 15:30 horas**

Local: **Pontifícia Universidade Católica do Rio de Janeiro (PUC-RJ)**
Sala do Decanato do Centro Técnico Científico (CTC)
Rua Marquês de São Vicente, 225, Prédio Cardeal Leme, 12º andar

Abstract

The evolving fifth generation (5G) cellular wireless networks are envisioned to provide higher data rates, enhanced end-user quality-of-experience (QoE), reduced end-to-end latency, and lower energy consumption. Starting with the visions and requirements for 5G cellular networks, several emerging technologies will be presented, which will enable and define the 5G mobile communications standards.

The major research problems, which these new technologies breed, shall be discussed, as well as the measurement and test challenges for 5G systems.

Biography of Dr. Ekram Hossain

Dr. Ekram Hossain is a Professor in the Department of Electrical and Computer Engineering at University of Manitoba, Winnipeg, Canada, where he leads the Wireless Communications, Networks, and Services (WiCoNS) research group. He received his Ph.D. in Electrical Engineering from University of Victoria, Canada, in 2001. Dr. Hossain's current research interests include design, analysis, and optimization of wireless/mobile communication networks with emphasis on 5G systems, cognitive and green radio systems, and network economics. He was elevated to an IEEE Fellow "for contributions to spectrum management and resource allocation in cognitive and cellular radio networks". Currently, he serves as the Editor-in-Chief for the *IEEE Communications Surveys and Tutorials* and an Editor for *IEEE Wireless Communications*. Also, he is a member of the IEEE Press Editorial Board. He has won several research awards including the University of Manitoba Merit Award in 2010 and 2014 for Research and Scholarly Activities, the 2011 IEEE Communications Society Fred Ellersick Prize Paper Award, and the IEEE Wireless Communications and Networking Conference 2012 (WCNC'12) Best Paper Award. Dr. Hossain is a Distinguished Lecturer of the IEEE Communications Society (2012-2015).

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