Keynote: GreenTouch: Inventing Sustainable, Ultra Energy-Efficient ICT Networks

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About the keynote speaker

Dr. Luoning Gui has built up the R&I center from the very beginning in 2002. He is a senior vice-president, now the head of R&I/Bell Lab in China leading the organization to explore advanced research and innovation with the mission to create disruptive new technologies that is to be transferred to Solutions and Marketing organization, Product/Services group, or that can be directly turned into an internal venture, or that can be technology licensed.

Luoning Gui got his PhD in communication engineering from the University of Electronic Science and Technology of China in 1993 and his MBA from Fudan University- BI Norwegian School of Management in 2005. He started his research work in Ethernet from 1984 to 1987, Spread Spectrum Radio system from 1987 to 1989, then ATM and IP switching from 1989 to 1996. He holds more than 20 patents worldwide.

Summary:

The presentation first addresses the opportunities for ICT in reduction of global carbon emission, then gives a introduction for Green Touch, including its mission, goal, members, the way it is organized and most recent progresses. Followed by the detailed technology areas in green research, such as Wireline, and Wireless (Massive MIMO & Small cell). Finally, we summarize on what we contribute collectively to green communications.