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## The power of 5G WISDOM wireless communications

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Despite the large variety of existing communication systems, each development has been motivated by the same goal: to provide universal service facilities to users, while maintaining or increasing profitability. Interoperable, ubiquitous and dynamic are key objectives for fifth-generation (5G) communication systems and applications. WISDOM is a vision of for a global 5G wireless communication system realized with universally deployable converging technologies to enable personalized wireless services and applications at a data rate of more than one terabit per second (Tbit/s), with coverage extending from a city, to a country, to the continents and to the world, that will enable user-centric mega-communications. This talk will discuss the technical challenges to realizing WISDOM as well as the WISDOM enabling potential to deal with the complexity of the emerging user expectations for novel personalized usage scenarios bringing about a myriad of high-quality services not for the mere sake of transmitting data but for enabling the virtualization of the reality of the human emotions, senses, and feelings. WISDOM is a wireless system that allows to establish and maintain ubiquitous human bonds and not merely wireless connections. This talk explores novel boundaries for next generation human-bond communication systems and outlines the major technological challenges.

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## Imagine tomorrow: Learning in a connected world

**Richard G Bush**

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The college experience could be drastically different in the next decade. Wireless mobile technologies make it possible for students to attend classes, deliver assignments, research subjects, and interact with faculty and colleagues from nearly any. Add to that access to internet cafes and wireless networks, the opportunity to connect increases substantially. Over 18 million students will take at least one online class this year, with a greater appetite for faster wireless connections and advanced systems to support them. The future development and use of virtual reality and augmented reality technology may enable students the ability to collaborate in real time on assignments and projects, to role play in management cases, to work in virtual labs, and experience hands on instruction. Tomorrow's students will demand even higher production quality instruction and immersion, pushing innovators and engineers to create new learning management platforms and infrastructure to support them.

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