

# Challenges for the Next Decade in Wireless Platform Designs

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## Abstract

The convergence of computing and communications has led to the need for a new paradigm in wireless system design. While today's wireless systems are designed to address external interference sources, the systems of the future will have to contend with traditionally ignored internal interference sources in order to achieve maximum range and throughput requirements. A new paradigm, the Platform Channel, is required in order to address these internal sources of interferences.

The Platform Channel, comprised of radio frequency interference sources and solutions, will have to utilize advanced embedded signal processing techniques in order to meet the demands of increasing device integration, while maintaining wireless mobility quality and service needs.

This talk will outline the components of this "new" channel and the associated challenges in developing robust techniques for wireless systems for the next decade.

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## Bio

Mr. Keith R. Tinsley was born in 1970 in Heidelberg, Germany. He received his BSEE from Old Dominion University and MSEE from Arizona State University. Upon graduation, Mr. Tinsley joined Motorola where he worked in radio frequency design for satellite communications systems, including Iridium and Teledesic, and in embedded digital design for personal communication systems. In 2001, Keith joined Intel and has contributed to the Multiband OFDM Alliance (MBOA) standard for Ultra-wide band communications. Keith's present focus is in the area of radio frequency interference mitigation and improving the quality of present and future Intel wireless platforms.

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