Wireless Communications and Mobile Computing

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Special Issue on
Resource Management and Coding for Multimedia Communications in Next-Generation Wireless Networks

CALL FOR PAPERS

Recent years have witnessed a tremendous increase in multimedia service demands over wireless and mobile networks, such as social media and entertainment, video streaming on demand, remote surveillance, telemedicine, and Internet of Things (IoT). This trend, accompanied with a large increase in the number of connected devices, has led to several challenges facing the networks offering the required connectivity for such services. These networks need to accommodate very high data volumes and user data rates, very low latency, and efficient data compression and forward error correction, while improving network Quality-of-Service (QoS) and user Quality-of-Experience (QoE).

The emerging 5G technology is expected to offer solutions for such foreseen problems, which will affect network design especially when dealing with multimedia services. With the aim of bringing the spotlight on multimedia communication challenges in 5G networks, this special issue solicits high quality research papers on recent advances in resource management, coding techniques, and relevant areas for multimedia communications over next-generation wireless networks. Review papers summarizing the state of the art in related research areas are also encouraged.

Potential topics include but are not limited to the following:

- Resource allocation for enhancing QoS/QoE in 5G networks

- Channel code design for enhancing QoS/QoE in 5G networks

- Cross-layer design for multimedia applications in 5G networks

- Joint source-channel coding for multimedia applications

- Network coding for multimedia communications

- Resource management and coding for multimedia sensor networks

- Resource management and coding for multimedia IoT, M2M, and D2D

- Resource management and coding for multimedia communication in vehicular networks

Authors can submit their manuscripts through the Manuscript Tracking System at https://mts.hindawi.com/submit/journals/wcmc/rmcn/.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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