Special Issue

Towards Ultra-Low-Latency Video Communications

Message from the Guest Editors

With the rapid development of new-generation wireless communication (6G, IoT) technology, visual-related services including virtual/augmented reality, remote driving, online gaming, tactile internet or machine-to-machine (M2M) communications are expected to be among the main killer applications. Low/ultra-low latency is of paramount importance for such emerging applications, where latency is defined as the amount of time between the acquisition of a picture at the sender and its display at the distant receiver. Hence, it is necessary to develop innovative technologies based on recent advances in information theory, signal processing and communication in order to minimize the glass-to-glass (G2G) delay while ensuring high-quality reconstructed video even when channel conditions are severe. This Special Issue aims to highlight the most recent advances in the field of low/ultra-low-latency video communications. It will cover the different technical solutions proposed in terms of video coding/decoding, network protocols and forward error correction. Use cases for low or ultra-low-latency video delivery, as well as the quality of user experience aspects, will also be addressed.

Guest Editors

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

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