Special Issue

Wireless Communications: Signal Processing Perspectives

Message from the Guest Editors

Going forward, data volume will continue to increase rapidly, as will the logistic complexity of wireless networks, which are becoming increasingly heterogeneous and unpredictable. Furthermore, there is a push for ultra-reliable and low-latency communications, which imposes further constraints on the wireless infrastructure. In fact, the need for extremely low-latency responses implies that much of the processing will be pushed towards the network edge, thus radically changing the nature of the wireless domain and its cybersecurity aspects. Meeting these challenges requires continuous innovation in the signal processing domain to continue leveraging the spatial dimension with increasing efficiency in conjunction with other techniques to yield the desirable traits of ultra-reliability, ultra-low latency, self-organization, scalability, and adaptability to changing environments, operating conditions and network demands. We therefore welcome unpublished original papers and comprehensive surveys on the above theme. The Special Issue of interest include, but are not limited to:

- antenna selection
- massive MIMO
- green communications
- physical-layer security

Guest Editors

Prof. Dr. Sébastien Roy
Prof. Dr. Julian Cheng
Prof. Dr. Jean-Yves Chouinard

Deadline for manuscript submissions

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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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