Advanced Coding and Stochastic Signal Processing in Dense Communication Networks

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Message from the Guest Editor

Advanced coding and stochastic signal processing are key enabling techniques for reliable communications in dense, highly interfering wireless communication networks. The dense networks are defined as multi-node/user wireless network scenarios where mutual signal interaction is a predominant limiting factor. This situation requires that the coding and processing fully exploits the knowledge of the interaction structure and form, together with the network topology, and uses it proactively in the distributed processing algorithms on all network nodes. Frequently, these communication networks are used as a part of some control or sensing network data-processing algorithm or physical device/machinery control loop.

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Message from the Editor-in-Chief

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