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Information-Theoretic Security II

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Message from the Guest Editors

Dear Colleagues,

Security is one the main challenges for future wireless communications systems, including 5G and beyond, cyber-physical systems, and the Internet of Things. In today's communications systems, there is a clear separation between data-encryption and error-correction. Error-correction is implemented at the physical layer allowing higher layers to abstract the physical layer as an ideal bit pipe. Encryption, based on cryptographic principles, then takes place on higher layers. This separation has long been an obvious solution in most systems, but there is growing interest in providing security directly at the physical layer by exploiting the properties of the underlying communication channel.

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Special Issue

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Message from the Editor-in-Chief

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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