Special Issue

Information Theory for MIMO Systems

Message from the Guest Editors

Multiple input multiple output (MIMO) is an enabling technology for wireless communications systems over decades for its capability of increasing the transmission rate via multiplexing and improving the transmission reliability via diversity by deploying multiple antennas at the transmitters and receivers. Information theory provides the benchmark and guides the design of communication systems since the celebrated seminal work of Shannon in 1948. Despite the considerable amount of research results including information theoretical studies of MIMO communication, the expansion of the communication range and demands of future communication systems such as 6G and IoT pose new challenges. This special Issus aims to bring together recent research efforts that study fundamental limits and signal processing methods of MIMO for the design of next generation communication systems.

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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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