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Quantum Communication, Quantum Radar, and Quantum Cipher

Guest Editor:

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Deadline for manuscript submissions:
closed (24 October 2022)

Message from the Guest Editor

Quantum information science has completed its formation as a basic science thanks to the contributions of many pioneers, and now the time has come to seek practical applications based on applied research. In order to make quantum information science applicable to the real world, it is necessary to change direction to focus on engineering technology based on macroscopic qubits. If this is achieved, quantum communication will further expand the possibilities of ultrahigh-speed optical communication, quantum radar will provide the feasibility of all-weather sensors, and macroscopic quantum cryptography will contribute to enhancing the security of the physical layer of current optical networks. The purpose of this Special Issue is to consolidate and publish the latest research trends by researchers who are conducting research toward the above goals. It consists of invited papers, original papers, short reviews, and proposals for the future prospects in this field. The Foundation of Quantum ICT Institute will provide an award of USD 5000 /paper to the best papers (max two) among those included in this 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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