Special Issue

Quantum Communication—Celebrating the Silver Jubilee of Teleportation

Message from the Guest Editors

Quantum communication is the study of communication between two or more participants using quantum information resources and notions, such as qubits, superposition, interference, entanglement, non-locality, teleportation, decoherence, and more. In particular, we are celebrating here the silver jubilee to quantum teleportation, which is one of the pillars (along with the Einstein-Podolsky-Rosen paradox and Bell's inequality) of quantum communication. We are inviting you to submit to this Special Issue papers discussing quantum communication in its broadest sense. The scope of the Special Issue includes (among other topics) entanglement, teleportation, quantum (and beyond-quantum) non-locality, quantum communication complexity, quantum cryptography, quantum error correction, and quantum channels.

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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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