

Special Issue

Quantum Computing for Complex Dynamics

Message from the Guest Editors

As of the 1980s, physicists combined a quantum mechanical model to computer science, called quantum computers. The quantum computers could perform much better than a classical computer. Since then, the research on quantum computation has been growing rapidly, both in architecture and algorithms. The complex dynamics are known for their complexity, chaos, and randomness, which widely exist in the field of cryptography, communication, chemistry, and so on. It is hard for classic computers to deal with complex dynamics, while quantum computers act as an ideal tool to calculate and simulate it. This Special Issue mainly focus on the state-of-the-art of the research in quantum computation and quantum algorithms, in particular, for the computation of the complex dynamics. Prof. Dr. GuiLu Long

Guest Editors

Prof. Dr. Guilu Long

Dr. Shijie Wei

Dr. Heng Fan

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

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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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Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University at Albany, 1400 Washington Avenue,
Albany, NY 12222, USA

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