Special Issue

Quantum Computing and Quantum Information Processing

Message from the Guest Editor

The foundations of quantum theory were formulated over a hundred years ago, but it was not until the last quarter century that quantum theory left the tranquillity of physical laboratories. Theoretical and technological developments have allowed for serious treatment of the new research discipline commonly known as quantum information processing. It seems that we will sooner or later enter the era of technological use of quantum technology. Therefore, we hope that this Special Issue will provide an overall picture of the discussed problems and up-to-date findings to both researchers and students and that the readers will ultimately benefit from reading the contributions. Scope: Potential topics (theories and experiments) dealing with, but not limited to, the following subheadings are deemed suitable for publication:

- Quantum algorithms;
- Quantum computing;
- Quantum communication;
- Quantum complexity theory;
- Quantum cryptography;
- Quantum games;
- Quantum information processing;
- Quantum networks;
- Quantum programing.

Prof. Jan Sladkowski

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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