In-Memory Computing and Its Applications

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Message from the Guest Editors

The goal of this Special Issue is to explore the existing architectures, models, and techniques and to integrate new technologies, focusing on performance evaluation and comparison with existing solutions in the field of in-memory computing and its applications. This Special Issue encourages both theoretical and experimental studies of in-memory computing and its applications. Furthermore, high-quality review and survey papers are welcome. Academic researchers, developers and industry practitioners are invited to contribute papers to this Special Issue. Topics of interest include (but are not limited to) one or more of the following topics:

- In-memory data management

- In-memory processing with multi-cores/many-cores

- Programming framework and compiling skills for in-memory computing

- In-memory computing applications and architectures;

- System software support for in-memory computing

- Big data applications with in-memory computing

- In-memory computing for deep learning and neural networks

- Security, privacy, and trust issues for in-memory computing, etc.

Special Issue

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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.

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