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Advanced Technologies in Storage, Computing, and Communication

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Message from the Guest Editors

Recent years have witnessed the emergence of Big Data and artificial intelligence with wide applications in both business and consumer worlds. One promising solution is to use the rapidly increasing volume of data and computation resource available at massive distributed nodes, and to integrate the intelligences of information computing, storage, and communication. The aim of this Special Issue is to develop and review the recent results in this fascinating intersection of caching, distributed computing, communication, machine learning, and information theory. Topics of interest include, but are not limited to,

- Coded and uncoded caching;
- Coded distributed computing;
- Elastic computing;
- Computations and communications in distributed machine learning;
- Private information retrieval;
- Distributed storage systems;
- Computations in network coding;
- Practical considerations such as network topologies, privacy and security, and implementation complexities.



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Special Issue



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Message from the Editor-in-Chief

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