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Sensor Data Compression

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Deadline for manuscript submissions:

31 August 2024

Message from the Guest Editors

Dear Colleagues,

Data compression is one of the most traditional disciplines in computer science with a huge amount of engineering applications. In fact, except textual data and various synthetic datasets, either entered interactively or generated algorithmically, the majority of the remaining data are produced by some kinds of sensors. To reduce network traffic, speed up the transmission, save energy and memory space, and enable the operation in the real-time, these data should be compressed.

Many challenges still exist for the compression of sensor data. This Special Issue searches for the innovative papers that deal with various aspects of data compression obtained from various sensors as follows:

- Background of data compression (e.g., surveys, methodological concepts);
- Image compression (e.g., medical and satellite images, aerial photographs, orthophoto);
- Multichannel, aggregated, and time-varying data compression (e.g. IoT, biomedical signals, and sound data);
- Point cloud compression (e.g., LiDAR or photogrammetry data);
- Voxel data compression (e.g., CT, MRI, ultrasound)
- Data compression in the ad hoc wireless sensor networks (e.g., energy saving).













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Message from the Editor-in-Chief

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(Instrumentation)

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