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Combinatorial Methods for String Processing

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Deadline for manuscript submissions:
closed (1 December 2020)

Message from the Guest Editor

Strings, or sequences, are the most fundamental form of digital data. Due to recent developments in sensor network technologies and semi-automated machine-to-machine (M2M) communications, sequential data have been increasing more rapidly than ever. It is often the case that such semi-automatically generated sequential data contain abundant repetitive structures. Thus, understanding, revealing, and utilizing combinatorial objects that reside in strings are of great significance in designing efficient string processing algorithms and data structures. This Special Issue on “Combinatorial Methods for String Processing” aims exactly at this goal.

We cordially invite you to submit high-quality papers to this Special Issue. Typical topics of interests include (but are not limited to):

- Combinatorial string problems and solutions;

- Pattern matching algorithms;

- Applied combinatorics on words;

- Text compression;

- Data structures for strings, labeled trees, and compressed text.

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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

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