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MapReduce for Big Data

Guest Editor:

Dr. Lijun Chang
School of Computer Science, The University of Sydney, Camperdown, NSW 2006, Australia

Deadline for manuscript submissions:
closed (30 September 2018)

Message from the Guest Editor

Data are becoming increasingly decisive resources in modern society. Big Data is an emerging paradigm encompassing various kinds of complex and large-scale information beyond the capability of conventional data-processing techniques. For example, one of the most important characteristics of Big Data is to carry out computing on petabyte (PB), and even exabyte (EB)-level data with a complex computing process. Therefore, massively parallel processing techniques, such as algorithms utilizing the cloud computing platforms MapReduce and Spark, are on demand.

The aim of this Special Issue is to invite high quality manuscripts that address challenges of Big Data with emerging computing platforms, such as MapReduce and Spark. We welcome original and unpublished manuscripts from academia and industry on the recent advances in different aspects of big data research and applications. Topics of interests include, but are not limited to: theoretical foundations of massively parallel computation, MapReduce algorithms for big data, and distributed algorithms for big graph processing.

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Editor-in-Chief

Prof. Dr. Frank Werner
Faculty of Mathematics, Otto-von-Guericke-University, P.O. Box 4120, D-39016 Magdeburg, Germany

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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Algorithms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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