The pervasive use of communication networks defines new challenging scenarios that make information security harder to preserve. The need of distributing data and computation on the Internet and the nowadays common use of cloud computing and mobile computation through wireless network, impose the use of more sophisticated algorithms.

Algorithmica seeks original manuscripts for a Special Issue on "Algorithms for Secure Computation" scheduled to appear in 2014. The goal of this Special Issue is to create a volume focused on obtaining Secure Computation through the design and analysis of advanced algorithms.

TOPICS OF INTEREST

We invite high quality submissions addressing the design and analysis of algorithms for secure computation. Relevant topics of secure computation where design and analysis of algorithms plays a fundamental role include, but are not limited to, the following:

- Secure Computation in the Cloud
- Interactive Proof Systems
- Secure Two-Party and Multi-Party Computation
- Private Information Retrieval
- Round Complexity of Cryptographic Protocols
- Identification Schemes
- Distributed Computing

SUBMISSION GUIDELINES

Papers submitted to this special issue for possible publication must be original and must not be under consideration for publication in any other journal or conference. Submissions that extend previously published conference papers will also be considered. The submission should begin with a title, followed by the names, affiliations and contact information of all authors, and a short abstract. The format of the paper should strictly follow the format required by Algorithmica and that can be found at the following address:


SUBMISSION DEADLINE: December 1, 2013
EXPEDITED REVIEW AND PUBLICATION SCHEDULE IN 2014