IEEE Transactions on Sustainable Computing Call for Papers for Special Issue on "Secure Sustainable Green Cloud Computing" (S2GC2)

Currently, the booming development of cloud computing has resulted in a remarkable growth of multiple industries in which dramatic demands of green computing and sustainability are addressed. The platform of cloud computing has provided an efficient approach for connecting various infrastructure such that many new technologies are eventually formed, such as Internet-of-Thing and ubiquitous computing. The concept of sustainable green cloud computing has become a significant issue for those enterprises or practitioners who are engaging the implementations of cloud computing aiming a longer term strategy. Considering the achievement of the real sustainability, one of the crucial values is to ensure all operations across different computing sources are under a secure executive environment. For reaching a high performance of securing sustainable green cloud computing, many problems need to be solved. For example, one of the main challenges is to balance the costs among security, energy, performance, and sustainable requirements. The distribution of the computing resources in this issue is a great challenge because the real-time executions are usually constrained by multiple elements. An efficient approach of providing an adaptive and scalable service as well as addressing sustainability is an urgent research direction for current advanced cloud computing applications.

This special issue aims at collecting updated outstanding papers that illustrate the latest achievements and development updates concerning the security solutions, issues, applications, trends, and implementations in sustainable green cloud computing. The following is a non-exhaustive list of topics in focus of this special issue:

- Energy-aware design and programming models in sustainable cloud computing
- Energy-efficient resource management in secure cloud computing
- E-mobility and smart security in sustainable green cloud computing
- Internet-enabled infrastructures and services in sustainable green cloud computing
- Service innovations and design in sustainable green cloud computing
- Novel architecture, implementations, and applications in sustainable green cloud
- Scheduling and switching power supplies in sustainable green clouds
- Energy-aware process security optimization in sustainable cloud computing
- Security and privacy in sustainable green cloud computing
- Secure virtualization applications in green cloud computing
- Secure embedded sensor networks in green cloud computing
- Next generation secure green cloud computing services and applications
- Smart security in power grid
- Green fixed network planning and optimizations in sustainable cloud computing
- Future secure sustainable technologies in cloud computing

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. They should be submitted via IEEE Transactions on Sustainable Computing. Authors should select "SI: S2GC2". All submitted papers will be peer reviewed according to the usual standards of this journal, and will be evaluated on the basis of originality, quality and relevance to this Special Issue and the journal, and on the basis of clarity and correct use of English. The submitted papers should be formatted according to the journal style. For more detailed information concerning the requirements for submission, please refer to the journal homepage at: https://www.computer.org/web/tsusc

Important Dates

Submission due date: **Feb. 15, 2017**
First round review notification: Apr. 1st, 2017
Notification of acceptance: May 1st, 2017
Camera Ready submission due date: Jun. 1st, 2017

Guest Editors

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