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Special Issue on Green Computing

Scope:
Computing is not only a high-tech one, but also a high-energy-consuming one. Inspired by the need to take adequate actions against humankind’s rapidly destroying the conditions for prosperity and profit, green computing with the aiming of energy costs and CO₂ emissions’ reducing, and environment protecting, has become a potential research focus for all the information and communication technology designers. Green computing is the environmentally responsible use of computers and related resources. Such practices include the implementation of energy-efficient central processing units (CPUs), servers and peripherals as well as reduced resource consumption and proper disposal of electronic waste. The objective of this special issue is to present a collection of high-quality research papers that report the latest research advances in the area of green information and communications technologies, which mainly includes the development of truly sustainable (eco-effective) information technologies and related solutions.

In this special issue, we solicit original work in all areas of green computing. In particular, we seek original work on identifying new research and development challenges, developing new techniques and advanced information technology solutions in green computing for future computing systems, innovative information and communication technologies and applications. Specific topics include, but not limited to, the following:

- Green design
- Green data centers
- Green metrics
- Green IT lessons (experience, case studies)
- Green printing
- Green power grid
- Green communications and networks
- Energy-efficient computing
- Power management
- Eco-labeling of IT products
- Virtual resources management
- Virtualization
- Disposal and recycling
- Others and emerging new topics

Submission Details:
Original, high quality contributions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences are sought. All papers should be submitted through the Future Generation Computer Systems journal’s manuscript central website: http://ees.elsevier.com/fgcs/default.asp?pg=login.asp. A guide for authors for preparing their papers is available at http://www.elsevier.com/wps/find/journaldescription.cws_home/505611/authorinstructions. A copy of the manuscript should also be emailed to the Guest Editor, Dr. Rongbo Zhu at rbzhuster@gmail.com as PDF file. Manuscripts are typically 12 pages in length, and should not exceed 15 pages.

Important Dates:
- Manuscript due date: November 1, 2010
- First Decision notification: February 1, 2011
- Revised Paper Submission: March 1, 2011
- Second Decision notification: April 10, 2011
- Final papers: May 10, 2011
- Tentative Publication Schedule: 4th Quarter, 2011
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