



Special Issue on  
**Green Information Systems & Technologies: This Generation and Beyond**

In the past couple decades, environmental pressures and concerns from a variety of stakeholders have motivated both researchers and practitioners to investigate corporate greening solutions. The growth and importance of greening and environmental sustainability has not gone unnoticed by industry, government, institutions and their stakeholders. Among practitioners, while environmental sustainability has received great attention, Green IS (Information Systems) has just started to show its unique contribution as an extension of Green IT. Even though Green IS covers both infrastructure and organizational aspects of environmental technology, environmental sustainability is more general due to its integrated nature and sets of systems (including people, processes, software, and information technologies) to support individual, organizational, environmental and social goals. Surprisingly, while industries, corporations, and IS units have acknowledged the importance of environmental issues, the academic community has provided limited contribution to the burgeoning knowledge in sustainability with Green IS. The critical role of both Green IS and general greening through goods and services manufacture is visible to consumers but is also embedded in the life cycles of materials, manufacturing systems, and public infrastructure.

Information in general, and IS and IT systems in particular can play an important control role through support of environmental management systems, life cycle analysis, and design for the environment practices. Organizationally IS and IT managers and technologists' awareness of greening organizations is a potential starting point that requires investigation. The latest step is not only awareness and readiness, but also organizational leverage of IS capacities to effectively address these issues from reactive risk management or cost averse perspectives, and also from a longer term competitive stance and relationship. Inevitably Green IS/IT will need to be strategic with requisite fundamental changes across the organization and organizational routines, and even globally.

We see our special issue particularly focusing on global issues as well. International efforts, inter-organizational concerns, and the environment as a global entity are all reasons for this focus. Secondly, we seek to expand and incorporate various research methodologies including theoretical approaches (conceptual/theory building), empirical studies encompassing broad-based surveys, case studies, technical research modeling, quantitative and analytical techniques. Linking this work with engineering, economics, and social sciences are all encouraged. Given the title of our special issue, we would also like to see the research and findings of the works presented to be forward thinking, not only for this generation but also for future generations.

**Topics may include:**

- IS behavioral research for leadership and motivation for greening within organizations
- How information systems can raise and contribute to awareness of organizational greening both internal and external to the organization.
- The roles of various emergent information systems and technology including mobile systems, cloud computing, and remote sensing to aid in greening organizations.
- Environmental management model (e.g. strategic model and its implementation) implementation and support through Green IS and Green IT.
- Economy policy and incentives and standards, regulations, and legal issues.

- The roles of Green IS and Green IT in environmental management systems, life cycle analysis, eco-design, green supply chain management, and other environmentally oriented business practices.
- Environmental stakeholder involvement in IS and IT design and development.
- IS roles in carbon trading systems (both internal and external).
- Clean Technology and IS and IT relationships.
- Scale development for empirical research in green IS and green IT
- Globalization, -Information system, Information Technology, and the environment
- Monitoring, visualization, and optimization
- Green logistics, supply chain management and IT/IS
- Innovation methods and sustainability
- Green industrial eco-systems, Information System, and sustainability
- Green awareness and communication for formulating organizational strategy

Keywords: Green IS/IT, Green Supply Chain Management, Environment, Energy Informatics

Deadline for full paper submissions: 31 Dec 2011

Researchers interested in submitting papers are encouraged to submit abstracts with four keywords by September 15, 2011. Questions pertaining to this special issue may be sent to the editors. Papers may be submitted directly to Joseph Sarkis at [jsarkis@clarku.edu](mailto:jsarkis@clarku.edu).

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