**SUSTAINABLE COMPUTING: INFORMATICS AND SYSTEMS**

**DESCRIPTION**

*Sustainable computing* is a rapidly expanding research area spanning the fields of computer science and engineering, electrical engineering as well as other engineering disciplines. The aim of *Sustainable Computing: Informatics and Systems* (SUSCOM) is to publish the myriad research findings related to *energy-aware* and *thermal-aware management* of computing resource. Equally important is a spectrum of related research issues such as applications of computing that can have *ecological* and *societal impacts*. *SUSCOM* publishes original and timely research papers and survey articles in current areas of power, energy, temperature, and environment related research areas of current importance to readers. *SUSCOM* has an *editorial board* comprising prominent researchers from around the world and selects competitively evaluated peer-reviewed papers.

Making computing sustainable - *Software systems* perspective:
- **Power-aware** software
- Code profiling and transformation for *power management*
- Power-aware middleware
- Multimedia systems
- Scheduling and allocation

Computing for sustainability - Use of computing to make the world a sustainable place:
- Use of sensors for *environmental monitoring*
- Smart control for *eco-friendly buildings*
- Green Data Centers and Enterprise Computing

Re-inventing algorithms and applications for sustainability:
- Theoretical aspect of *energy*, power, and temperature
- Power-aware applications
- **Resource management** to optimize performance and power
- Power implications for portable and *mobile computing*
- Algorithms for reduced power, energy and heat for high-performance computing

Modeling and evaluation of *sustainable systems*:
- Reliability of Power-aware computers
- Runtime systems that assist in power saving
- Models for collective optimization of power and performance
- Monitoring tools for power and performance of parallel and distributed systems
Sustainable hardware platforms and devices - Hardware and architecture perspective:
- Power aware networking
- Real-time systems
- **Power-efficient** architectures
- Efficient circuit design for energy harvesting
- Power management in memory, disk, storage and other peripheral devices
- Configurable and renewable energy
- Low power electronics
- Embedded systems, ASICS and FPGSs
- Power leakage and dissipation

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INTRODUCTION
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