SUSTAINABLE COMPUTING: INFORMATICS AND SYSTEMS

TABLE OF CONTENTS

- Description p.1
- Impact Factor p.2
- Abstracting and Indexing p.2
- Editorial Board p.2
- Guide for Authors p.4

DESCRIPTION

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- 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 FPGAs
• Power leakage and dissipation

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List: Number the references (numbers in square brackets) in the list in the order in which they appear in the text.

Examples:

Reference to a journal publication:

Reference to a journal publication with an article number:

Reference to a book:

Reference to a chapter in an edited book:

Reference to a website:

Reference to a dataset:

Journal abbreviations source

Journal names should be abbreviated according to the List of Title Word Abbreviations.

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