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- Code profiling and transformation for power management
- Power-aware middleware
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- Scheduling and allocation

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- 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
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