



Special Session on Smart and Sustainable IT

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<http://cyber-science.org/2018/workshops-special-sessions.html>

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Abstract:

Concerns over the sustainability of growth has led to investigations into the environmental impact of information technology, leading to research and development activities for novel concepts which involves responsible as well as smart utilisation of existing resources waste reduction. This involves the following approaches relating to power consumption and environmental impact: IT optimisation for technological components, managing data flow, configuration of systems, and interacting between humans and digital systems; evidence-based intelligence IT management via analysis of machine and sensor data.

The Special Session on Smart and Sustainable IT would be initiated as a forum for scientists, engineers, standardization professionals, policy makers, researchers, practitioners, and students to present their latest research results, visions, ideas, and developments in the standardizations of IT and relevant technologies that can support sustainability. Researchers and professionals are encouraged to submit original research and standardization relevant contributions in all major areas, which include, but not limited to:

- Smart and Sustainable industrialization and innovation
- Smart Internet of Things (IoT)
- Smart Homes, Buildings or Cities
- Smart IT for water sustainability
- Smart IT and Renewable energy
- Smart IT for security and safety (and/or Secure and safe smart IT)
- Smart Sustainable mobility, transport, and logistics
- Energy efficient industrial environments and processes
- Energy efficient network and communications
- Smart power grids and energy systems
- Energy efficient data centres
- Smart waste management and recycling
- Smart agriculture
- Smart health care and medicine
- Smart and sustainable best practice, standards and policies

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