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Special Issue on Sustainable Computing Techniques for Mobile Networks

Overview:

The wireless communication trend must move toward a sustainable architecture and the development of technologies that facilitate this for wireless systems is crucial. Sustainable network architectures are plays major role wireless personal networks. The key issues in wireless networks are limited lifetime due to battery, network resources and result in poor Quality of Service. To overcome these issues, each device in the network is actively involved in all computing aspects to achieve the sustainability. The main focus of this special issue is on developing architectural, computational, mathematical models and methods for sustainable wireless networks in order to solve challenging problems related to sustainability.

Sustainability in wireless networks includes energy efficiency, resource allocation, network monitoring and use of multiple energy sources as needed in computing devices and infrastructure. Quality of Service based sustainability routing approaches are one of the challenging task in recent wireless networking. Solutions for these problems call upon a wide range of algorithmic and computational frameworks, such as optimization, machine learning, decision support systems, meta-heuristics, and game-theory. This special issue welcomes the papers from all the areas which are related to sustainable wireless networking.

Topics

Topics of interest include, but are not limited to, the following scope:

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| <ul style="list-style-type: none">• Wireless & Mobile Issues related to OS• Sustainable network planning and architectures• Power aware software modules for wireless systems• Design of sustainable electronics for sensors• Power aware scheduling• Sustainability based routing protocols• Energy and power aware routing approaches• Algorithms and modeling for tracking and locating mobile users• Secure architectures, protocols, and algorithms to cope with mobile & wireless Networks | <ul style="list-style-type: none">• Wireless topology architectures for sustainability• Innovative computing structures for sustainability• Real time approaches for sustainability• Algorithms for power and energy reduction• Wireless network power management mechanisms• Sustainable network management architectures• Approaches for sustainable resource sharing• Security based Social Network• Data Center Network Management, Reliability, Optimization. |
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Important Dates

- Manuscript submission deadline: 15 November 2016
- Notification of acceptance: 14 January 2017
- Submission of final revised paper: 16 February 2017
- Publication of special issue (tentative): 20 April 2017

Submission Procedure

Refer journal website.

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