Special Issue on Enabling Wireless Technologies for Green Pervasive Computing

Wireless pervasive computing is a rapidly growing area that has attracted significant attention in recent years due to its tremendous potential impact on the quality of life and the environment. To enable green pervasive computing, it is necessary to integrate technologies, many of which are highly heterogeneous, from various fields including distributed computing, networking, communications, and signal processing. Pervasive technologies can be used in various ways to develop and enhance design models for environment sustainability. Pervasive computing is a power tool used in businesses and social contexts to develop computing devices and solutions which are more environment friendly. This Special Issue focuses on enabling wireless technologies that have the potential to make green pervasive computing truly ubiquitous.

Many enabling wireless technologies continue to be deployed in various pervasive computing environments. There is an increasing interest in the computing community on how these technologies can be responsibly used environmentally to provide ubiquitous information access. The main aim of this special issue is to present the latest research achievements and results in the area of green pervasive computing and, in particular, how next generation wireless systems can help support and promote a sustainable environment. Topics include (but are not limited to):

- Cross-layer design issues
- Green pervasive computing
- Wearable devices and technologies
- Sensor devices, designs, protocols, and applications for green pervasive computing
- RFID applications, designs, standards, and data management
- Wireless technologies and architectures in pervasive computing
- Wireless smart vehicle systems and networking
- Pervasive e-services
- QoS support in wireless systems for green pervasive computing
- Smart vehicular networks and systems for green pervasive computing
- Cellular technologies (UMTS, GSM, GPRS, etc.) for green pervasive computing
- Fault-tolerant and resilient networks
- Performance evaluation of wireless systems, and technologies

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