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Special Issue on New Advances and Challenges in Smart Home

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Scope

Technologies for smart home (SH) have emerged as new paradigms that includes ubiquitous, grid, and peer-to-peer computing to provide computing and communication services any time and anywhere. Rapid advances are being reported by many researchers and forums as regards understanding numerous issues and challenges in such paradigms, from theoretic to application aspects. Moreover, the continuous development of Internet and the construction of new computing and middleware are making possible the development of large scale applications from many fields of science and engineering. These issues present nowadays real challenges to the development of smart home systems and applications.

The aim of this special issue is to present innovative researches, methods and techniques related to smart home. The contributions to this SI of IJSH are expected to bring new advances from theory and practice in smart home as well as to state problems and new research challenges to be focused by the research community in the near future. The SI papers will be selected based on their originality, significance, technical soundness, and clarity of exposition. Authors are encouraged to check and make references to papers published by IJSH on related topics to this CFP.

Paper selection will be exclusively done from accepted papers of SH-07 and therefore they should extend at least 30% new contents of the original paper of SH-07.

Topics

Areas of interest for this special issue include, but are not limited to, the following topics:

- Mobile / Wearable intelligence for SH
- Smart Space (Home, Building, Office) applications and services
- Smart Home network middleware and protocols
- Context Awareness for SH Services
- Frameworks and data mining for SH
- Wireless sensor networks (WSN) / RFID application for SH
- Multimedia Security and Services in SH
- Security Issues for SH
- Access control and Privacy Protection in SH
- Forensics and Security Policy in SH
- WSN / RFID Security in SH
- Commercial or Industrial applications for SH

