

Special Issue on Personal Communication Technologies for Smart Spaces

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Advancements in mobile information systems (MISs) are influencing the evolution of network ubiquity in personal communication. Technology has penetrated and transformed daily life, in part by increasing the connectivity of physical objects in order to create smart spaces for personalized mobile services. Personal and mobile smart devices, such as smartphones, tablets, and personal computers dominate the time that people spend connected to each other. The capacity for personalization improves a user's satisfaction, as it allows for an information source to be available to a user on demand, and communication technologies fulfil the quality of services (QoS) and quality of experiences (QoE) requirements for users. The real-time monitoring and control of personalized information sources—such as home devices and multimedia services—increases the demand for personal communication technologies. A ubiquitous and distributed network of heterogeneous but seamlessly connected personal devices has enabled intelligent mobile information services to be available anywhere, at any time, and to be accessible by anyone.

The aim of this Special Issue is to provide a multidisciplinary collection of research with a focus on mobile information services for personal communication with social, industrial, and business impacts, including aspects such as localization and tracking, smart homes, smart care, and energy utilization and monitoring. This particular issue is driven by the latest research and development of smart personal communication devices, algorithms, and applications for the real-time monitoring and control of smart personal spaces for mobile information services.

Potential topics include but are not limited to the following:

- ▶ Enabling technologies and standards for smart personal spaces
- ▶ Personal communication platforms for Internet of Things- (IoT-) based smart homes
- ▶ Energy efficient technologies for personal communications
- ▶ Smart personal devices and personal area networks for personalized mobile information services
- ▶ Machine learning and optimization techniques for personalized data processing
- ▶ Personal communication solutions allowing for disabled and elderly people to live in assisted and independent situations
- ▶ New data collection schemes and enhanced monitoring using sensor fusion for personal smart spaces

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