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Special Session (SS02) on:

Smart Cities Initiatives for the 21st Century: Myth or Reality

Organisers:

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The aim and scope of the special session:

The urbanization of cities is increasing, and nowadays about 54 percent of the world's population lives in cities. By the year 2025, this number will be around 70 percent. In big cities, this will put a lot more pressure on the physical infrastructure and social services. Smart city innovations are new approaches to holistic management of cities' physical, socio-economic, environmental, transportation and political assets across all urban domains. The role of technology and the governance of the same is increasingly becoming a challenge that needs to be addressed. This can be facilitated through the use of smarter technology. Further to achieve this objective, this requires a shared vision of all stake holders like citizens, public and private organizations and many others. This special session will include academicians, researchers, technocrats, professionals and industry experts working on different dimensions of smart cities, smart technologies, strategies for regional development, and policies for valuable deliberation.

Two important initiatives are converging at the session, the Role of the Local Government and Smart Cities Initiatives. The goal of local Government is to make government more open and democratic by providing citizens and corporations access to information and services about their cities and how they operate. Consequently, cities around the world are pursuing an "Open Data" policy. The goal of Smart Cities is to identify ways in which scarce resources can be more effectively deployed to meet the needs of its constituents. Both rely on the ability to represent and reason about city data. Accordingly, the purpose of the Smart Cities Mission is to drive economic growth and improve the quality of life of people by enabling local area development and harnessing technology, especially technology that leads to Smart outcomes. Area-based development will transform existing areas (retrofit and redevelop), including slums, into better planned ones, thereby improving liveability of the whole City. Application of Smart Solutions will enable cities to use technology, information and data to improve infrastructure and services. There is a growing importance of ICT in profiling the competitiveness of cities. There is extensive ongoing research in a wide range of enabling information and communication technologies, including ICT infrastructure, wireless and sensing technologies, energy efficiency, social networking, and big data analytic for smart cities. In this Special Session we will catch up with the latest research and product developments, measurement methods, application scenarios and concept studies.

This special session will bring together researchers and developers from academia, industry and governmental sectors to share and exchange novel ideas, explore the inherent challenges in developing future smart city applications, investigate novel designs, explore enabling technologies and share relevant experiences.

Topics of interest include:

Authors are encouraged to submit their contributions and abstract related to the special session's main theme and in particular the topics of interest, listed below.

- Sensable city networks
- Smart Water and Waste Management
- Smart Buildings: Energy Efficient & Green Buildings
- Intelligent Traffic Management
- Safety, security, and privacy for smart cities
- Crisis and disaster management in smart city
- Integrated Multi-Modal Transport
- Smart city theory modeling and simulation
- Policies for smart urban design
- Public private partnership (3P) model for smart city
- Sustainability of smart cities
- Smart and green building technologies
- Digitalization of civic services
- Data and Information infrastructure modeling
- Security and public safety in smart cities
- Smart health care system
- Future challenges in smart cities

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