IFIP IoT 2022 Special Session

[IoT for Smart Villages]

Scope

In recent years, large-scale urbanization has been on the rise, with the sustainable development of smart cities being the hubs for growth. Still, rural business plays a vital role in any country's overall development. Therefore, smart villages, alongside smart cities, need time for the holistic development of society in vision with Sustainable Development Goals (SDG) of the United Nations (UN). The current rural villages lack proper health care facilities, advanced agriculture techniques, proper education, quality of drinking water, better energy management, etc. Therefore, to overcome these challenges and remain competitive and sustainable, there is a need to develop new and emerging technologies and their applications to fulfill the vision of the smart village, which impacts the holistic development of society. The Internet-of-things (IoT) is a crucial technology player to envisage the smart village. The IoT provides interactive platforms for exchanging information and controlling the actions between the smart devices. Smart things are embedded with smart sensor-computing platforms and information exchanges across the communication protocols. This special session intends to serve as a forum to present state-of-the-art innovative advances in solutions and research for smart and sustainable solutions ranging from IoT, efficient sensing, cloud/edge computing, smart actuators, etc., to address the problems associated with the villages. The topics for this special session of interests include, but are not limited to the following:

- Smart village applications and services
- IoT for agriculture/healthcare/water management/, climate monitoring, etc.
- IoT for handling Critical Emergencies and Disasters
- Sensor and Actuator Networks
- Smart village embedded and cyber-physical systems
- Computing for smart villages (edge/cloud, Agriculture 4.0, Society 5.0, etc.)
- AI/ML approaches using IoT in the smart village domain
- System and architectural approaches for sensor integration in IoT
- Security by design in consumer IoT devices
- Sensor and Actuator Networks
- IoT for supporting Policy Development and Governance
- IoT and Security & Privacy

Session Organizers

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Topics/ Keywords

- Smart Agriculture, Smart Healthcare, Smart Farm, Livestock Care, Rural Development, Artificial Intelligence, Mining and Analytics, Security & Privacy

Submission procedure

Special sessions are included in the main Conference and follow the same reviewing process.

Short abstracts submission (100-150 words): Apr 8th, 2022
Full papers submission: May 6th, 2022
Acceptance Notice: Jun 17th, 2022
Final version Submission: Jul 1st, 2022

Acceptance of papers is based on the **full paper** (up to **18** pages). Each paper will be evaluated by three members of the International Program Committee.

When submitting on the website, you have to indicate the name of the special session. Submission procedure via Easychair available on: http://ifip-iotconference.org, with a copy by email to the chairs of the special session.