



IEEE 7th World Forum on Internet of Things
20-24 June 2021 // New Orleans, Louisiana, USA
 Theme: The Impact of Artificial Intelligence on IoT

IoT based Consumer Technologies for Smart Villages

(in conjunction with WF-IoT 2021)

Organizing Committee	Call for Papers
Chairs: <p align="center"> Himanshu Thapliyal University of Kentucky, USA Email: hthapliyal@uky.edu </p> <p align="center"> Saraju P. Mohanty University of North Texas, USA Email: smohanty@ieee.org </p>	<p>The smart village is a concept that combines renewable energy and community-based education that can have an impact on an estimated 940 million population worldwide. Smart villages target IoT based consumer technologies in rural areas to develop innovative solutions to improve the quality of life and provide growth opportunities to its residents. The smart villages exhibit certain characteristics that may have some commonalities with smart cities, but also some distinctly different. The systems of the smart villages are essentially cyber-physical systems or CPS which are built using the Internet of Things (IoT). Research on <i>'IoT based consumer Technologies for Smart Villages'</i> encompasses sensors, cloud computing, edge computing, big data, wearable devices, and related technologies for the energy-efficient, secure, and robust design. Thus, the development of <i>IoT based Consumer Technologies for Smart Villages</i> needs the investigation of several factors such as energy efficiency, security, privacy, computational performance, reliability, and flexibility, which necessitates rigorous research.</p> <p>This special session intends to serve as a forum to present state-of-the-art techniques and IoT-</p>
Technical Program Committee	
Paper Submission Guidelines	
All final submissions should be written in English with a maximum paper length of six (6) printed pages see web conference for instructions. Papers must be submitted through https://epapers.org/wf-iot2021/ESR/login.php . See conference web page for instructions: https://wfiot2021.iot.ieee.org/authors-proposers/	
Important Dates	
Paper submission deadline: March 22, 2021 Paper acceptance notification: April 22, 2021 Camera-ready submission: May 15, 2021	

enabled consumer technology solutions for smart villages. The topics for this special session of interests include, but are not limited to the following:

- IoMT-enabled solutions for smart healthcare
- IoT-enabled solutions for smart transportation
- IoT-enabled solutions for Unmanned Aerial Vehicle (UAVs)
- IoT-enabled solutions for smart huts and smart homes
- Blockchain based solutions for smart village components and technologies
- Physical Unclonable Functions (PUF) based solutions for smart village components and technologies
- Security, Privacy, and IP Rights solutions for smart village components and technologies
- Sensor designs for diverse IoT applications
- Real-time systems design for IoT applications
- Energy-harvesting technology for IoT
- Security and privacy-aware hardware designs for IoT
- Artificial Intelligence (AI) and machine learning solutions for smart village components and technologies
- Edge computing based IoT solutions for smart villages.