



International Conference

on

Sustainable Computing in Science, Technology & Management (SUSCOM-2019)

February 26 - 28, 2019 | Amity University Rajasthan, Jaipur, India

Emerging trends in Wireless Communications for the Internet of Things

Dr. Ritika, DIT University, Dehradun, Uttarakhand, India

hod.mca@dituniversity.edu.in

Dr. R. K. Saini, DIT University, Dehradun, Uttarakhand, India

rk.saini@dituniversity.edu.in

Aims & Scope:

Over the past decade, the Internet of Things (IoT) has become one of the most influential technologies in the fields of wireless communications and mobile computing. Originated from RFID and wireless sensor networks (WSNs), the paradigm of IoT has been transforming every aspect of human life including healthcare, energy, transportation, and manufacturing. Recent predictions show that there will be more than 20 billion IoT devices by 2020. Since its very beginning, wireless communication has been focused on serving human-to-human interaction or human accessing information. Due to IoT, the scope of wireless communication becomes ubiquitous communication among all people and all devices, and the major challenge now becomes how to realize large-scale device-to-device (D2D) communication in an intelligent and energy efficient fashion. On the other hand, mobile computing is expected to be more pervasive and resource constrained than any time before. To facilitate IoT, there are tremendous innovation opportunities in different disciplines and perspectives. This session is seeking high-quality research articles as well as reviews about state-of-the-art technologies in wireless communications and mobile computing that contribute to the formation and advancement of IoT. Since power and cost constraints are major factors of IoT development, they will be the main focus of this special issue.

Subtopics:

- Power-line communication for smart grid and home area networks.
- Body area networks with Bluetooth and other low power communication techniques.
- Emerging techniques in ZigBee and low power Wifi.
- Energy efficient networks in IoT systems.
- Energy-constrained wireless sensing techniques.
- Compressed sensing for signal with sparse structure in IoT applications.
- 5G technologies and their application in IoT.
- Biosignal processing with mobile computing.
- Cyber-physical system architecture.
- Energy efficiency in wireless sensor networks.

- Cross layer design in WSNs.
- Machine learning algorithm for adaptive computing in IoT.
- Security and privacy innovation for IoT applications.
- Genetic Algorithms and Fuzzy Set Theory for Communication system.
- Underwater-Sensor Networks.
- Wireless Communication in Health care Services.
- Swarm Intelligence for Innovative applications.
- Cloud Computing applications in Industry and academics.

Technical Programme Committee(s):

- Dr. Naveen Pandey, Assistant Professor, Department of Computer Science, Dev Sanskriti Vishwavidyalaya, Haridwar.
- Ms Kishwer Khan, Assistant Professor, Department of Computer Applications, DIT University, Dehradun.
- Ms. Rakhi Nautiyal, Assistant Professor, Department of Computer Applications, DIT University, Dehradun.
- Dr. Shakti Kundu, Assistant Professor, Shivalik College of Engineering, Dehradun.
- Dr. Raj Kumar, Assistant Professor, Uttaranchal college of Science and Technology, Dehradun.

Submission Procedure:

Researchers and practitioners are invited to submit papers through the below given easy chair link:

<https://easychair.org/conferences/?conf=suscom2019>.

Select the special session track from the listed track. All submissions must be original and may not be under review by another publication. The submitted papers will be reviewed on a double-blind and peer review basis.

Publications:

All registered and presented papers will be published in the **ELSEVIER-SSRN Digital Library** at <https://hq.ssrn.com/conference=SUSCOM-2019>. Extended versions of selected papers will be considered for the special issue of journals indexed in ESCI, Scopus, SCIE, DBLP, Web of Science, ACM, Compendex, INSPEC, Thomson Reuters, Cabell's Directories to name a few.

All inquiries should be directed to the attention of Session Chair/Co-Chair:

Name: Dr. Ritika & Dr. R. K. Saini

Designation: Associate Professor

Email Id: hod.mca@dituniversity.edu.in and rk.saini@dituniversity.edu.in

Contact Number: +91-9412005111 & +91-9456294074