



**IEEE Conference Record No. 44302**

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## **PDGC-2018**

2018 Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC) will be organized at Jaypee University of Information Technology, Wagnaghat, Solan, Himachal Pradesh, India. PDGC-2018 will serve as an international forum for researchers and practitioners interested in recent advances in the areas of parallel, distributed and grid computing. It will provide an opportunity to present and exchange advanced scientific and technological information in hardware, software and theoretical foundation in these areas. The proceedings of PDGC 2018 will appear in the proceedings published by IEEE and fully indexed by IEEE Xplore (**IEEE Conference Record No. 44302**). 1st best paper, 2nd best paper and 3rd best paper award will be given.

### **Venue**

Jaypee University of Information Technology is located at Wagnaghat, Solan, Himachal Pradesh 173234, India. It is situated near Shimla (24 Km) just 3 Km off the NH22 (Delhi-Ambala-Kalka-Wagnaghat-Shimla road). Convenient airports are Shimla (30 Km), Chandigarh (100 Km), New Delhi (350 Km) and Amritsar (350 Km).

### **SPECIAL SESSION ON “Advanced Wireless Communications and Mobile Computing Technologies for the Internet of Things”**

#### **SESSION CHAIR**

Dr. Ritika Mehra

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#### **SESSION CHAIR**

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### **AIMS & SCOPE**

#### **Aim and 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.

Detailed topics included in this special session are given below and scope is limited to these and their allied areas only.

- Ubiquitous wireless sensor networks for healthcare
- Power-line communication for smart grid and home area networks
- Body area networks with Bluetooth and other low power communication techniques
- Communication protocols for RFID, NFC, and passive wireless sensors
- Emerging techniques in ZigBee and low power Wifi
- Energy efficient networks in IoT systems
- Software-defined radios and cognitive radios for IoT
- Self-organizing network and SoN algorithm in IoT systems
- Energy-constrained wireless sensing techniques
- Compressed sensing for signal with sparse structure in IoT applications
- Low-Power Wide-Area Network (LPWAN) and Long Range Wide Area Network (LoRaWAN)
- 5G technologies and their application in IoT
- Biosignal processing with mobile computing
- Cyber-physical system architecture
- Peer-to-peer device networking
- IoT traffic characterization
- Modeling of large-scale IoT
- Interoperability and integration of emerging standards with existing standards
- Machine learning algorithm for adaptive computing in IoT
- Security and privacy innovation for IoT applications

This special session at PDGC 2018 aims to solicit, consolidate and disseminate the latest advances and developments in emerging focused areas of wireless communication, Mobile computing technologies in IOT and their allied areas. Authors are invited to submit papers presenting novel technical studies as well as broader position and vision papers on next generation networking systems and their applications.

**PUBLICATIONS:** All the accepted paper after the oral presentation during the conference will be submitted to IEEE Xplore. **IEEE Conference Record No. 44302**

**PUBLICATION:**

**All the accepted and presented papers (after double blinded peer review) will be submitted to IEEE Xplore for publication.**

## Conference Indexing: SCOPUS.

Submission of Full Papers Deadline	20 <sup>th</sup> August, 2018
Notification of Acceptance Deadline	15th October, 2018
Submission of Accepted Camera-Ready Papers Deadline	30th October, 2018
Author's Registration Deadline	15th November, 2018
Conference Dates	20-22 December, 2018

## TOPICS OF INTEREST

Full length original and unpublished research papers based on theoretical or experimental contributions related to the below mentioned tracks are invited for submission in this special session:

## PAPER SUBMISSION PROCESS:

Paper Submission Process:

**Please submit your paper (in word/pdf format) at following emails:**

Email: "riti.arora@gmail.com", "rakeshcool2008@gmail.com" with Subject Line 'Research Paper for Special Session-DSUC- PDGC- **2018** from your email.

You may upload the paper through easy chair on the conference website. Details are as follows;

[http://www.juit.ac.in/pdgc-2018/paper\\_submission.php](http://www.juit.ac.in/pdgc-2018/paper_submission.php)

For any further queries related to this special session, please contact the session chair at:

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## Technical Program Committee (TPC):

### List of Members from India & Abroad (Consented already)

1. Dr. Nipur, Professor, Kanya Gurukul Mahavidyalaya, Dehradun
2. Dr. Sandip Vijay, ICFAI University, Dehradun
3. Dr. Vartika Srivastava, Assistant Professor, IIIT, Noida, Uttar Pradesh
4. Dr. Charu Gandhi , Associate Professor, IIIT, Noida, Uttar Pradesh
5. Dr. Naveen Pandey, Assistant Professor, Department of Computer Science, Dev Sanskriti Vishwavidyalaya, Haridwar (Uttarakhand)
6. Dr. Rajeev Kumar, Associate professor, College of Computing Sciences and Information Technology, Teerthankar Mahaveer University, Moradabad
7. Mr. Shakti Kundu, Assistant Professor, Shivalik College of Engineering , Dehradun
8. Dr. Raj Kumar, Assistant Professor, Uttaranchal college of Science and Technology, Dehradun

More International and National distinguished academicians will be added shortly.

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**Publication Policies:**

1. All registered and presented papers/review articles shall be submitted to IEEE Xplore for their possible publication in a Conference Proceedings format (online). However the right to accept and subsequent publication of each will be with IEEE Xplore that will be decided on the basis of the quality novelty of work and the originality of the text, the manuscript will represent.
2. In case, any registered paper/article is rejected by the IEEE Xplore for its publication with their conference proceeding due to any reason (mentioned at point number-01), the sole responsibility shall lies with authors of that article. As we clearly stated on the first and home pages, that IEEE Xplore will conduct quality checks on the accepted papers and only papers that pass these checks will be published. Therefore authors are expected to avoid to use similarity text (copy and paste from other published works), should adhere to original work maintaining technical and result description qualities. Also authors will not allow to make changes in the choice of publication category (I or II) once registered and pay the fee as per category wise.
3. Paper/article length is limited upto 6 pages only. Extra pages are to be avoided, if necessary, author can place a request in advance with payment of separate fee (page-wise) as mentioned in the registration link.