International Conference on Data-Processing and Networking (ICDPN-2024)

Date: 25th-26th October, 2024

ORGANISED BY : Institute of Technology and Business in České Budějovice, Near Prague, Czech Republic, Europe (Venue).

************** CALL FOR PAPERS ***************

SPECIAL SESSION ON
IoT Technologies for Data Networking for Sustainable Urban Advancements

SESSION ORGANIZERS:
Dr Rashmi Sharma, Ajay Kumar Garg Engineering College, Ghaziabad, India,
drrashmisharma20@gmail.com
Dr Inderjeet Kaur, Galgotia College of Engineering and Technology, Greater Noida, India,
kaurinderjeet2023@gmail.com

EDITORIAL BOARD: (Optional)
NA

SESSION DESCRIPTION:
The Internet of Things (IoT) plays a pivotal role in sustainable city development by enabling smarter, more efficient urban management. Through a network of interconnected devices, IoT facilitates real-time data collection and analysis across various urban sectors, including energy, transportation, water management, and waste disposal. Smart grids optimize energy consumption and reduce carbon footprints by adjusting supply based on demand patterns. Intelligent transportation systems alleviate traffic congestion and lower emissions through dynamic traffic management and predictive maintenance of infrastructure. IoT-enabled water management systems monitor usage and detect leaks, ensuring efficient water distribution and conservation. Additionally, smart waste management solutions streamline collection routes and promote recycling, minimizing environmental impact. By integrating IoT technologies, cities can enhance their sustainability, improve residents' quality of life, and create resilient, adaptive urban environments.

RECOMMENDED TOPICS:
Topics to be discussed in this special session include (but are not limited to) the following:

- **Smart Grid Data-driven Solutions for Smart Cities**
- **Block chain Applications in Data Processing and Networking**
- **Edge Computing: Enhancing Data Processing Efficiency**
- **IoT Technologies for Air Quality Monitoring in Urban Environments**
- **Cybersecurity Challenges in Data Processing and Networking**
- **Machine Learning Algorithms for Big Data Analysis**

- **Cloud Computing and Data Networking Infrastructures in Intelligent Transportation system (ITS)**
- **Data Fusion and Integration in Intelligent Urban Agriculture for Networked Systems**
- **Emerging Trends in Sustainable Resource Utilization Systems**
- **Challenges in Smart Waste management and Recycling Solutions**

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[IoT Technologies for Data Networking for Sustainable Urban Advancements]** *on or before* **[30th July 2024].** All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at **https://www.icdpn-conf.com/Downloads**. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify [**IoT Technologies for Data Networking for Sustainable Urban Advancements as Session Name**] at the top (above paper title) of the first page of your paper.

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