# 7th International Conference on
# Recent Trends in Image Processing and Pattern Recognition

**December 19-20, 2024**

Indian Institute of Information Technology Bhopal, India
in collaboration with Maulana Azad National Institute of Technology Bhopal, India
and 2AI: Applied Artificial Intelligence Research Lab - University of South Dakota, USA

**HYBRID EVENT**

## ST9: TRANSFORMING URBAN LANDSCAPES: HARNESSING THE SYNERGY OF IOT AND MACHINE LEARNING FOR SMART CITIES' DATA-CENTRIC EVOLUTION

### About Special Track:

The convergence of the Internet of Things (IoT), artificial intelligence (AI), and machine learning (ML) in smart cities is a crucial moment in urban development. By seamlessly integrating IoT devices to collect real-time data and using machine learning algorithms to analyze and derive insights, cities can optimize resource allocation, enhance infrastructure efficiency, and improve the quality of life for residents. This synergy enables proactive decision-making, allowing for predictive maintenance, optimized transportation systems, and sustainable urban planning. Researchers are invited to submit their original work covering a wide range of IoT, AI or ML based approaches used in the data-centric evolution of smart cities.

### Topics of Interest:

* Smart Power Distribution & Metering
* E-mobility & Charging Infrastructure
* Public Safety
* Data-driven Urban Planning
* Disaster Resilience and Emergency Management
* Data Analytics and IoT
* Smart Buildings and Homes

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Main Track (RTIP2R-2024)

ST1: Advancements in AI for Image Processing
ST2: AI in Healthcare
ST3: Emotional well-being Digital Twin
ST4: Cross-Modal Information Retrieval using Image and Textual Contents
ST5: Quantum-Enhanced Imaging and ML for Environmental Analysis
ST6: Cyber-Physical Systems Automation for Industry 4.0
ST7: Advancements in Machine Learning and Pattern Recognition for Electrical & Electronics Engineering
ST8: Machine Learning Techniques for Image, Speech and Natural Language Processing
ST9: Transforming Urban Landscapes: Harnessing the Synergy of IoT and Machine Learning for Smart Cities' Data-Centric Evolution

**Paper submission:** Papers are expected to be within the 5-8 **page**. The authors are advised to follow **Guidelines** to prepare their manuscript. **Templates:** **MS-Word Template** or **LaTeX Template**
**Note**: We recommend using the **LaTeX** template.

Please select ST9: Transforming Urban Landscapes: Harnessing the Synergy of IoT and Machine Learning for Smart Cities' Data-Centric Evolution from tracks before you begin your submission as shown.

**SUBMISSION URL:** https://cmt3.research.microsoft.com/RTIP2R2024

### TRACK CHAIRS

### Deadline: 15/06/2024

**Dr. B V Surya Vardhan**
CEEW, India

**Dr. Sidharth Sabyasachi**
TCS, India

**Dr. Ishan Srivastava**
BBAU Lucknow, India

**Dr. Revati Godse**
SUTD, Singapore

### PUBLICATIONS

Conference proceedings will be published in **Procedia Computer Science, Elsevier (Scopus)**.
Selected and/or best papers may be extended for journal issues (SCI, Scopus, and DBLP indexed).

Scopus Indexed