



# 7<sup>th</sup> 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

## ST1: ADVANCEMENTS IN AI FOR IMAGE PROCESSING

### About Special Track:

AI-powered image processing enables automation of tasks that traditionally required human intervention. Artificial Intelligence and Image Processing are revolutionizing industries by automating manual tasks and enabling insights at a scale that was impossible before. From facial recognition, drone imaging to medical diagnostics and satellite imagery, the use of AI in image processing is growing rapidly and opening up new possibilities. The main tasks involved in image processing include image segmentation, feature extraction, geometric transformations, image enhancement, image compression, and image reconstruction. This special track will cover the role of AI in Image Processing involving image classification, object detection, semantic segmentation, image enhancement, image generation, anomaly detection, visual recommendation, content moderation, etc.

### Topics of Interest:

- \* Object Recognition and Tracking
- \* Remote Sensing and Earth Observations
- \* AI assisted Smart Agriculture
- \* Autonomous Vehicles
- \* Enhanced Automation
- \* 3D Image Reconstruction
- \* Image Generation using AI

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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 **ST1: Advancements in AI for Image Processing** from tracks before you begin your submission as shown.

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

### TRACK CHAIRS

Deadline: 15/06/2024



**Dr. Jaspal Kaur Saini**

Dr. B R Ambedkar NIT Jalandhar, India



**Dr. Pratishtha Verma**

NIT Kurukshetra, India



**Dr. Vishal K Singh**

University of Essex, U.K.

### PUBLICATIONS

Conference proceedings will be published in [Procedia Computer Science, Elsevier](#).

**Selected and/or best papers may be extended for journal issues (SCI, Scopus, and DBLP indexed).**

Scopus  
Indexed

For any query, please contact at [sainijk@nitj.ac.in](mailto:sainijk@nitj.ac.in)

<http://www.rtip2r-conference.org/2024/>