



# 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

## ST5: QUANTUM-ENHANCED IMAGING AND ML FOR ENVIRONMENTAL ANALYSIS

### About Special Track:

"Quantum-Enhanced Imaging and ML for Environmental Analysis" Special Track aims to highlight and explore the synergistic potential of quantum computing, machine learning (ML), and advanced imaging techniques in the realm of environmental monitoring and climate change analysis. This track will serve as a nexus for cutting-edge research that leverages quantum computational advantages and ML algorithms to process and interpret vast and complex environmental data sets. By focusing on quantum-enhanced imaging and ML, the session intends to foster innovative approaches to detecting, analyzing, and predicting environmental changes with unprecedented precision and efficiency.

### Topics of Interest:

- \* Quantum Algorithms
- \* Advanced Imaging Techniques
- \* Environmental Monitoring Technologies
- \* Machine Learning for environmental analysis.
- \* Satellite Imagery Analysis
- \* Sustainable Technology Development
- \* Case Studies on Technological Solutions for Environmental Issues

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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 **ST5: Quantum-Enhanced Imaging & ML for Environmental Analysis** from tracks before you begin your submission as shown.

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

### TRACK CHAIRS

Deadline: 15/06/2024



Dr. Akansha Singh  
Bennett University, India



Dr. K. K. Singh  
Delhi Technical Campus, India

### 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 [akansha1.singh@bennett.edu.in](mailto:akansha1.singh@bennett.edu.in)

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