

CALL FOR PAPERS

# ICANTCI 2025

2nd International Conference on  
Advanced Network Technologies  
& Computational Intelligence

2nd-3rd May, 2025 | Mode: Hybrid



## Call for Special Session-2.7

### Important Dates:

Paper Submission: **November 15, 2024**

Notification of Acceptance: **December 15, 2024**

Camera Ready & Registration: **January 5, 2025**

Conference Dates: **May 2-3, 2025**

### Publication

All accepted and registered papers of the special session will be submitted to Springer for inclusion in its prestigious series “Communications in Computer and Information Science” (SCOPUS Indexed).

### Registration

Please visit the conference website for registration and other details:

<https://ca.chitkara.edu.in/icantci2025>

### Session Title:

#### Optimizing / Enhancing AI and Machine Learning Models

**Session Description:** In the rapidly evolving field of artificial intelligence (AI) and machine learning (ML), the efficiency, performance, and effectiveness of models are critical for achieving practical success and driving innovation. This special session aims to bring together researchers, practitioners, and industry experts to explore advanced optimization techniques and strategies that enhance AI and ML models. The session will cover a range of topics from optimizing training processes to improving model efficiency and robustness, offering insights into both theoretical advancements and practical applications.

The Objectives of the session includes a) Highlighting Key Optimization Techniques: Showcase state-of-the-art methods for optimizing AI and ML models, including advancements in training algorithms, hyper-parameter tuning, and model architecture optimization. b) Exploring Practical Applications: Discuss real-world applications and case studies where optimization techniques have significantly enhanced AI and ML models. C) Addressing Challenges and Future Directions: Identify current challenges in model optimization and explore emerging trends and future directions in the field.

### Session Chairs:

#### Dr. Shweta Jindal (formerly Shweta Singhal)

Indira Gandhi Delhi Technical University for Women, New Delhi

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#### Dr. Shaily Malik

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#### Ms. Barkha Khandelwal

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**Topics of Interest:** Topics of this special session include (but are not limited to):

- Optimization of Model Training:
- Hyper-parameter Tuning and Model Selection
- Resource-Efficient AI
- Scalable Optimization for Big Data
- Approaches for optimizing AI and ML algorithms in the context of large-scale data, including data parallelism, mini-batch processing, and scalable optimization algorithms.
- Optimization for Real-Time and Edge AI
- Robust Optimization and Model Stability
- Optimization in Reinforcement Learning:
- Automated Machine Learning (AutoML)
- AI Model Interpretability and Optimization
- Advanced Training Optimization including adaptive learning rates, advanced gradient-based methods, and distributed training approaches.
- Reinforcement Learning Optimization:
- Future Trends in Optimization:

**Paper Submission Process:** Researchers and practitioners are invited to submit papers for this special theme session on “**Optimizing/Enhancing AI and Machine Learning Models**” *on or before* [November 15, 2023]. 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://ca.chitkara.edu.in/icantci2024/#>. All submitted papers will be reviewed on a double-blind, peer review basis.

#### Contact Details of Special Session Chairs:

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**NOTE:** While submitting paper in this special session, please specify “**Optimizing/Enhancing AI and Machine Learning Models**” at the top (above paper title) of the first page of your paper as a header.

Paper submission link:

<https://cmt3.research.microsoft.com/ICANTCI2025/Submission/Index>