

**ICAIN-2025**  
**International Conference on Artificial**  
**Intelligence and Networking**

Organized by  
**University of Stirling - RAK Campus, UAE**

**10th - 11th October 2025**

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

**SPECIAL SESSION ON**

**AI for Advance Predictive Analytics and Decision-Making in Complex Computational Systems**

**SESSION ORGANIZERS:**

1. Dr. Divya Agarwal, Assistant Professor, Vivekananda Institute of Professional Studies-Technical campus, Delhi, India, +91-9968362010 ([er.divya7@gmail.com](mailto:er.divya7@gmail.com))
2. Dr. Sandhya Tarwani, Assistant Professor, Vivekananda Institute of Professional Studies-Technical campus, Delhi, India, +91-9650295744 ([sandhya.tarwani@vips.edu](mailto:sandhya.tarwani@vips.edu))

**EDITORIAL BOARD: (Optional)**

NA

**SESSION DESCRIPTION:**

This session focuses on the transformative role of Artificial Intelligence (AI) in enhancing predictive analytics and decision-making within advanced computational systems. It aims to explore innovative AI methodologies and frameworks that drive accurate predictions, optimize processes, and enable data-driven decision-making in complex and dynamic environments. Topics of interest include machine learning algorithms for predictive modeling, AI-powered optimization techniques, real-time analytics in computational systems, and their applications in diverse domains such as finance, healthcare, engineering, and supply chain management. The session will also highlight challenges such as scalability, interpretability, and ethical considerations in deploying AI solutions. By bringing together researchers and practitioners, this session seeks to foster discussions on cutting-edge advancements and practical implementations, paving the way for more intelligent and efficient computational systems.

### RECOMMENDED TOPICS:

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

- **AI and Machine Learning Algorithms for Predictive Modeling**
- **Real-Time Predictive Analytics for Decision Support Systems**
- **Optimization Methods Powered by AI in Computational Systems**
- **Explainable AI (XAI) for Enhanced Decision-Making Transparency**
- **AI for Forecasting in Financial, Healthcare, and Supply Chain Systems**
- **AI-Driven Risk Assessment and Management**
- **Data Fusion and Integration Techniques for Predictive Analytics**
- **Edge Computing for Real-Time AI Decision-Making**
- **Ethical Considerations in AI-Based Predictive Analytics**

### SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this particular theme session on **AI for Advance Predictive Analytics and Decision-Making in Complex Computational Systems** *on or before 30th May 2025*. 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.icain-conf.com/downloads>. All submitted papers will be reviewed on a double-blind, peer-review basis.

NOTE: While submitting a paper in this special session, please specify **AI for Advance Predictive Analytics and Decision-Making in Complex Computational Systems** at the top (above paper title) of the first page of your paper.

\* \* \* \* \*