



2025



8thInternational Conference on Innovative Computing and Communication

Organized by Shaheed Sukhdev College of Business Studies, New Delhi, India

On 14-15 February 2025.

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

SPECIAL SESSION ON

Computational Psychology

SESSION ORGANIZERS:

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EDITORIAL BOARD: (Optional)

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SESSION DESCRIPTION:

Computational Psychology is a multidisciplinary field that uses computational methods and models to study and understand human cognition, behavior, and mental processes. It lies at the intersection of psychology, cognitive science, artificial intelligence, and computer science. The goal of computational psychology is to create formal models that simulate how humans think, learn, make decisions, and interact with the world.

In traditional psychology, researchers often rely on qualitative and quantitative data from experiments, surveys, or observations. Computational psychology, on the other hand, focuses on using mathematical models, algorithms, and simulations to capture complex psychological phenomena.

RECOMMENDED TOPICS:

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

- Computational models of memory, perception, learning, decision-making, and problem-solving.
- Analysis of social interactions, group behavior, and social networks using computational techniques.

- Techniques for modeling and simulating emotional processes, mood detection, and affective computing.
- Applications of NLP in understanding human communication, sentiment analysis, and psychological assessment.
- Using AI and machine learning to diagnose, predict, and treat mental health conditions.
- Linking brain processes to cognitive and behavioral models through computational techniques.
- Psychological principles in designing user interfaces, usability, and human-centered AI systems.
- Computational tools in VR for behavioral experiments and therapeutic interventions.
- Analyzing large-scale psychological data, including social media, wearable sensors, and clinical databases.
- Addressing privacy, bias, and the ethical implications of computational methods in psychological research.

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Computational Psychology on or before 30th November 2024**. 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 http://icicc-conf.com/paper_submission.html. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify **Computational Psychology** at the top (above paper title) of the first page of your paper.

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