# ICAIN-2024
## International Conference on Artificial Intelligence and Networking

Organized by
Guru Tegh Bahadur Institute of Technology (GTBIT),
affiliated to
Guru Gobind Singh Indraprastha University (GGSIPU), Delhi
in association with
Portalegre Polytechnic University & Institute of Technology and Business in České Budějovice, Czech Republic
&
Keshav Mahavidyalaya, University of Delhi

## 24th - 25th September 2024

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

### SPECIAL SESSION ON
Recent Advances in Software and System Engineering

### SESSION ORGANIZERS
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### SESSION DESCRIPTION
The field of Software and System Engineering has been evolving rapidly, driven by technological advancements, changing user needs, and the growing complexity of software systems. Software Engineering and System Engineering have emerged as separate fields with unique terminologies, emphases, and considerations. As software continues to play a crucial role in various systems, there is an escalating demand for these disciplines to establish efficient collaboration methods. The creation of future systems necessitates expertise drawn from both within and beyond the distinct realms of Software Engineering and System Engineering. The absence of software implies a lack of new capabilities, and deficient System Engineering may result in integration challenges, potentially leading to systems that do not meet customer requirements. It is imperative to foster synergy and collaboration between System and Software

Engineering. Furthermore, addressing future challenges will demand even greater collaboration among these disciplines, along with others such as Computer Science and Human-centred Design.

This special session aims to explore and showcase the recent advances in Software and System Engineering, bringing together researchers, practitioners, and experts to share their insights and discoveries.

## RECOMMENDED TOPICS

We invite researchers, academicians, and industry professionals to contribute original research papers, review articles, and case studies that address the following topics (but are not limited to):

1. Software Development Methodologies
   - AgileandDevOps practices
   - Continuousintegrationand deployment
   - Model-drivendevelopment
   - LeanandKanbaninsoftware engineering

2. Emerging Technologies in Software Engineering
   - Microservicesarchitecture
   - Serverlesscomputing
   - Edgecomputinginsoftware systems
   - Quantumcomputingapplications

3. System Architecture and Design
   - Scalableanddistributedsystems
   - Cloud-nativearchitectureandCyber-physicalsystems
   - Designpatternsandanti-patterns

4. Software Testing and Quality Assurance
   - Automatedtestingtechniques
   - Continuoustestingandvalidation
   - Testing inDevOps
   - Qualityassuranceinagile environments

5. Security and Privacy in Software Systems
   - Securecodingpracticesandprivacy-preservingtechnologies
   - Threatmodelling
   - Blockchainapplicationsinsecurity

6. Artificial Intelligence and Machine Learning in Software Engineering
   - AIandMLdriventoolssoftwaredevelopmentand  maintenance
   - Automatedcodegeneration
   - Naturallanguageprocessinginrequirements engineering

7. Human-Computer Interaction and User Experience
   - User-centreddesignandinteractiondesign principles
   - Accessibility,scalabilityandreliabilityinsoftwareengineering
   - Usabilitytestingand evaluation

## SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Recent Advances in Software and System Engineering]** *on or before* [30th July 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 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 [Recent Advances in Software and System Engineering] at the top (above paper title) of the first page of your paper.

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