

  
**ICDMIS 2024**

**International Conference on Data Mining and Information Security  
(ICDMIS 2024)**

*Organized by  
Eminent College of Management and Technology (ECMT)*

*Technically Sponsored by:  
Scientific Innovation Research Group (SIRG), Egypt  
Scientific Research Group in Egypt (SRGE), Egypt  
SETIT Research Lab. Sfax University –Tunisia  
CI2S lab, Argentina*

**Date: 7<sup>th</sup> – 8<sup>th</sup> October, 2024 (Hybrid Mode)**

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

**SPECIAL SESSION**

**Integrating Artificial Intelligence and Machine Learning with  
Devop's: Harmonizing Agility and Unleashing Synergy**

**SESSION ORGANIZERS:**



Dr. Santosh Reddy P  
BNM Institute of Technology  
Bangalore  
santoshreddy@bnmit.in



Dr. Anitha N  
BNM Institute of Technology  
Bangalore  
anithan@bnmit.in



Dr. Chayadevi M L  
BNM Institute of Technology  
Bangalore  
hodcse@bnmit.in

## SESSION DESCRIPTION:

In recent years, the convergence of Machine Learning (ML) and DevOps practices has emerged as a transformative force, empowering organizations to enhance automation, optimize workflows, and drive continuous improvement. These technologies aim to leverage ML capabilities to streamline development pipelines, enhance monitoring, and enable intelligent decision-making throughout the software development lifecycle. The main objective is to encompass key stages of DevOps, including continuous integration, continuous delivery, continuous testing, and continuous monitoring. Machine learning algorithms are employed to automate mundane tasks, predict potential issues, and optimize resource allocation, thereby contributing to faster and more reliable software delivery, and also addresses challenges associated with model deployment, version control, and ongoing monitoring in a DevOps environment. The core of the session elucidates key ML concepts applicable to DevOps, such as algorithmic considerations, continuous integration, and predictive analytics. Practical aspects are highlighted, showcasing how ML seamlessly integrates into CI/CD pipelines, automated testing, and quality assurance processes.

## RECOMMENDED TOPICS:

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

- AI and Machine Learning in Health Sector
- Machine Learning and AI for Cloud Computing
- Security and Privacy with Machine Learning Op's
- Human Augmentation: Integrating AI with Human Capabilities
- Blockchain and Decentralized Technologies
- Quantum Computing: Current State and Future Prospects

## PUBLICATION AND SUBMISSION PROCEDURE

The conference aims at carrying out double-blind review process. The papers submitted by the authors will be assessed based on their technical suitability, the scope of work, plagiarism, novelty, clarity, completeness, relevance, significance, and research contribution. The conference proceedings will be published in **Springer LNNS Series (Scopus)**.

Submission Link: <https://cmt3.research.microsoft.com/ICDMIS2024>

Submission Deadline: **30<sup>th</sup> June, 2024**

**NOTE: While submitting the paper in this special session, please specify [Integrating Artificial Intelligence and Machine Learning with Devop's: Harmonizing Agility and Unleashing Synergy] at the top (above paper title) of the first page of your paper.**

\* \* \* \* \*