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## International Conference on Cyber Analytics and Information Retrieval

***Organized by***

***Sister Nivedita University (SNU), India***

*Technically Sponsored by:*

**Scientific Innovation Research Group (SIRG), Egypt**

**Scientific Research Group in Egypt (SRGE), Egypt**

**CI2S lab, Argentina**

**Date: 24th – 25th April 2025 (Hybrid Mode)**

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

 **SPECIAL SESSION**

**Computational Intelligence for Cybersecurity: Emerging Trends, Challenges and Applications**

### SESSION ORGANIZERS:

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|  | A person smiling for the camera  Description automatically generated |
| Dr. Prachi Associate Professorprachi@ncuindia.edu | Dr. Manvi BrejaAssistant Professormanvibreja@ncuindia.edu |

**SESSION DESCRIPTION:**

### This special session aims to integrate the innovative concepts of computational intelligence and cybersecurity, focusing on trending approaches, state-of-the-art techniques, and real-world applications. The primary objective of the session is to bring together researchers to tackle modern cybersecurity challenging problems by applying advanced techniques in computational intelligence. It will focus on novel methods such as machine learning, deep learning, and bio-inspired algorithms for threat detection, prevention, and mitigation. It further provides a platform for scholars and academicians to share case studies, theoretical research, and practical applications in diverse cybersecurity domains.

### RECOMMENDED TOPICS:

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

• Supervised and unsupervised learning for intrusion detection.

• Neural networks for real-time threat analysis

• Automated malware analysis and classification

• Adversarial machine learning in secure systems

• Transformer models for cybersecurity use cases

• AI-driven anomaly detection in network traffic

• Bio-Inspired evolutionary algorithms for cybersecurity

• Cybersecurity for IoT and edge devices

• Blockchain and AI for secure transactions

• Ensuring data privacy in AI-based security systems

• Ethical considerations in cybersecurity incident responses

### 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 AIP Web of Science, Scopus series.

**NOTE: While submitting the paper in this special session, please specify [Computational Intelligence for Cybersecurity: Emerging Trends, Challenges and Applications] at the top (above paper title) of the first page of your paper.**

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