

Special Session and Track Proposal

2nd International Conference on Advances in Artificial Intelligence for Society (ICA2S 2026)

1 Track Name

Artificial Intelligence in Cybersecurity

2 Track Description

With the rapid growth of digital technologies, cybersecurity has become a serious concern for both organizations and individuals. Traditional security mechanisms are no longer sufficient to deal with the increasing complexity and volume of cyber threats. In this context, Artificial Intelligence (AI) is playing an important role by helping automate repetitive and time-consuming tasks that would otherwise require significant manual effort from security analysts. It also improves the ability of cybersecurity systems to detect, predict, and respond to evolving threats more effectively. This special session focuses on the integration of AI techniques in cybersecurity to address these modern challenges. It aims to bring together researchers, academics, and industry professionals to share recent developments, discuss existing challenges, and explore future directions in AI-driven cybersecurity solutions.

3 Scope and Topics of Interest

The session will include (but is not limited to) the following topics:

- Machine Learning and Deep Learning for Cybersecurity
- Intrusion Detection and Prevention Systems (IDS/IPS)
- AI-based Malware Detection and Analysis
- Network Traffic Analysis and Anomaly Detection
- AI in Threat Intelligence and Risk Assessment
- Cyber Threat Hunting using AI Techniques
- Adversarial Machine Learning in Security
- Privacy-preserving AI in Cybersecurity
- Blockchain and AI for Secure Systems
- IoT Security using Artificial Intelligence

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