

## **Special Session Proposal: AI in Cybersecurity**

### **Session Topic:**

The rapid evolution of artificial intelligence (AI) has significantly impacted cybersecurity, enabling advanced threat detection, anomaly identification, and automated defense mechanisms. This special session will focus on cutting-edge research and applications of AI in cybersecurity, addressing challenges such as adversarial attacks, real-time threat mitigation, AI-driven security frameworks, and privacy-preserving AI techniques.

### **Subsections to be Covered:**

1. AI-Powered Threat Detection and Mitigation
2. Adversarial Machine Learning in Cybersecurity
3. Privacy-Preserving AI for Cybersecurity
4. Automated Security Operations with AI
5. Ethical and Legal Challenges in AI Security

### **Intended Audience:**

- Researchers and academicians in AI and cybersecurity
- Industry professionals from cybersecurity firms and AI-driven security startups
- Government and defense agencies involved in cybersecurity
- Graduate students and early-career researchers interested in AI-driven security solutions

### **Prospective Reviewers:**

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### **Session Organizers:**

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We look forward to the opportunity to contribute to the conference with this special session on *AI in Cybersecurity*. Please let us know if any additional information is required.