



VIT COLLEGE OF ENGINEERING



(An ISO 9001:2005 Certified Institution)
Brahmapuram- 632 014, Vellore District,
Tamilnadu, India



INTERNATIONAL CONFERENCE ON **AI-POWERED CYBERSECURITY**

Innovations, Challenges, and the Future of Digital Defense



Organized by:

VIT College of Engineering



Conference Overview

As the digital world continues to evolve, the need for advanced cybersecurity solutions becomes more critical than ever. The integration of Artificial Intelligence (AI) into cybersecurity systems has emerged as one of the most promising strategies for defending against sophisticated cyber threats. The AI-Powered Cybersecurity: Innovations, Challenges, and the Future of Digital Defense conference aims to explore how AI is revolutionizing cybersecurity, tackling challenges, and shaping the future of digital defense.

This event will bring together academic experts, industry leaders, cybersecurity professionals, and students to engage in a comprehensive discussion on the role of AI in cybersecurity. Through keynote speeches, interactive sessions, and hands-on workshops, participants will gain insights into the cutting-edge technologies that are driving the future of digital security.

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Key Themes

- AI in Threat Detection and Prevention:
 - Exploring the use of machine learning, deep learning, and other AI techniques in identifying and mitigating cyber threats in real-time.
- Autonomous Cyber Defense Systems:
 - Development of intelligent, self-learning cybersecurity systems that can adapt to new threats without human intervention.
- Ethical Considerations in AI Cybersecurity:
 - Understanding the ethical implications and privacy concerns that arise with the use of AI in cybersecurity.
- AI for Threat Intelligence and Incident Response:
 - Leveraging AI to analyze massive datasets for identifying trends, patterns, and actionable insights for faster incident response.
- Challenges in AI-Powered Cybersecurity:
 - Addressing challenges such as data privacy, system vulnerabilities, AI biases, and scalability of AI models in the cybersecurity field.
- AI for Securing Emerging Technologies:
 - Investigating AI's role in securing the Internet of Things (IoT), cloud systems, blockchain, and other emerging tech in digital defense.
- Future of AI in Digital Defense:
 - Predicting the next generation of AI-powered tools and systems for cybersecurity and the evolving roles of cybersecurity professionals.

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Keynote Speakers

Day 1: AI-Driven Cybersecurity Innovations



Prof. Rajendra Prasad

Professor of Computer Science and Engineering,
IIT Delhi

Topic: "AI and Machine Learning in Cybersecurity: A
Transformative Approach to Threat Detection"

Prof. Rajendra Prasad is a leading expert in AI and machine learning applications for cybersecurity. His keynote will focus on the application of AI algorithms in threat detection and response, with an emphasis on their potential to improve the efficiency of security systems in protecting critical infrastructures. He will also address the challenges of implementing AI at scale in India's rapidly growing digital ecosystem.



Prof. Anjali Sharma

Head of Department of Cybersecurity, IIT Bombay

Topic: "Building Trust in AI-Driven Security Systems:
Challenges and Solutions"

Prof. Anjali Sharma's expertise lies in the integration of AI within security systems. Her talk will focus on overcoming the challenges of building trust in AI-driven security systems. She will discuss how transparency, interpretability, and ethical AI can ensure widespread adoption of AI technologies in cybersecurity, especially in the Indian context where data privacy and security concerns are paramount.

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Keynote Speakers

Day 2: Challenges in Implementing AI in Cyber Defense



Prof. Sandeep Kumar

Chair, Cybersecurity Research Group, IIIT
Hyderabad

Topic: "Securing India's Digital Future: AI Solutions for IoT,
Blockchain, and Cloud Systems"

Prof. Sandeep Kumar is an expert in securing emerging technologies, and his keynote will explore the challenges and solutions of applying AI to secure India's growing IoT, blockchain, and cloud infrastructures. He will present AI models that can adapt to these rapidly evolving technologies, as well as address the cybersecurity gaps in India's digital transformation.



Prof. Ramesh Babu

Professor, Department of Computer Science,
University of Hyderabad

Topic: "AI-Based Intrusion Detection and Prevention
Systems for Cyber Defense"

Prof. Ramesh Babu will speak on the advancements in AI-based intrusion detection systems and how these systems are crucial in defending against modern cyber threats. He will discuss how AI models can improve the detection and prevention of intrusions in large-scale networks, highlighting case studies from India where these systems have been successfully implemented.

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Keynote Speakers

Day 3: The Future of AI and Cybersecurity



Dr. Neha Desai

Assistant Professor, Department of
Information Security, IIT Kanpur

Topic: "Ethics and Privacy in AI-Powered Cybersecurity:
Navigating the Indian Context"

Dr. Neha Desai will deliver a keynote on the ethical and privacy challenges posed by AI in cybersecurity. She will examine how AI-based systems can be designed to protect user privacy and ensure ethical use of data in India. Her talk will emphasize the importance of a balanced approach to cybersecurity that accounts for ethical issues such as surveillance, data protection, and personal freedoms in the Indian digital landscape.



Prof. Vinod Kumar

Professor of Computer Science,
IIT Madras

Topic: "AI and the Future of Cybersecurity: A National
Security Perspective"

Prof. Vinod Kumar's keynote will discuss the strategic importance of AI in the context of national cybersecurity. He will highlight how AI can be leveraged to secure government, defense, and critical infrastructure, with a particular focus on India's growing reliance on digital technologies. Prof. Kumar will address how AI can be used for both offensive and defensive measures in national cyber defense strategies.

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Call for Papers

We invite original research papers, case studies, and technical papers from academics, industry professionals, and research scholars. The conference will cover the following tracks:

- AI Algorithms for Cybersecurity
- Machine Learning for Malware Detection
- AI-Based Network Security Solutions
- Security in AI-Driven Systems
- Case Studies of AI in Real-World Cybersecurity

Submission Deadline: 01/09/2022

Submission Details: www.grdjournals.com

Accepted papers will be published in the conference proceedings and may be considered for future journal publications.

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Conference Schedule:

Day 1: [20/09/2022] - AI-Driven Cybersecurity
Innovations

09:00 AM: Registration & Welcome Coffee

10:00 AM: Opening Keynote

Speaker: Prof. Rajendra Prasad (IIT Delhi)

Topic: "AI and Machine Learning in Cybersecurity: A
Transformative Approach to Threat Detection"

11:30 AM: Session 1: AI in Threat Detection

01:00 PM: Networking Lunch

02:00 PM: Session 2: Ethical Considerations in AI
Security

Speaker: Prof. Anjali Sharma (IIT Bombay)

03:30 PM: Panel Discussion: The Future of AI
Cybersecurity

05:00 PM: Closing Remarks & Day 1 Wrap-up

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Conference Schedule:

Day 2: [21/09/2022] - Challenges in Implementing AI in Cyber Defense

09:00 AM: Registration & Morning Coffee

10:00 AM: Keynote

Speaker: Prof. Sandeep Kumar (IIIT Hyderabad)

Topic: "Securing India's Digital Future: AI Solutions for IoT, Blockchain, and Cloud Systems"

11:30 AM: Session 3: AI-Based Intrusion Detection Systems

01:00 PM: Networking Lunch

02:00 PM: Session 4: Securing Critical Infrastructure with AI

03:30 PM: Panel Discussion: Overcoming the Challenges of AI in Cybersecurity

05:00 PM: Closing Remarks & Day 2 Wrap-up

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Conference Schedule:

Day 3: [22/09/2022] - The Future of AI and Cybersecurity

09:00 AM: Registration & Morning Coffee

10:00 AM: Keynote

Speaker: Prof. Ramesh Babu (University of Hyderabad)

Topic: "AI-Based Intrusion Detection and Prevention Systems for Cyber Defense"

11:30 AM: Session 5: AI in Securing National Security Networks

01:00 PM: Networking Lunch

02:00 PM: Session 6: Ethics and Privacy in AI-Powered Cybersecurity

Speaker: Dr. Neha Desai (IIT Kanpur)

03:30 PM: Panel Discussion: The Future of AI and Cybersecurity in India

05:00 PM: Closing Remarks & Conference Conclusion

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Venue Information

Date: 20 - 22 September 2022

Venue: VIT College of Engineering

Organized by: VIT College of Engineering

Venue address : Brahmapuram- 632 014,
Vellore District, Tamilnadu, India

For More Information:

Contact: info@grdjournals.com

Phone: 9876543210

Website: www.grdjournals.com

We look forward to welcoming you to the International Conference on AI-Powered Cybersecurity for an engaging and enriching experience!

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Registration Information

Early Bird Registration (Before 02/09/2022):

Students: \$345

Professionals: \$545

Regular Registration (After 10/09/2022):

Students: \$445

Professionals: \$645

Group Discounts: Available for groups of 5 or more.

For registration and payment, please visit our website at:

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