International Conference on Information Security, Privacy and Digital Forensics (ICISPD 2025)

Organized by
Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat
National Forensic Sciences University (NFSU), Gandhinagar
National Institute of Technology (NIT), Goa

Venue: Conference Hall, SVBP Guest House, SVNIT, Surat
Date: 21-23 November 2025
Google Meet Link for all session: https://meet.google.com/ccm-ywsv-kic

Conference Program

DAY-1: 21st November 2025

Time	Session Details	
8:30-9:30	Registration	
9:30-10:30	**Inaugural Ceremony**	
10:30-11:00	**High Tea**	
11:00-11:45	**KN1: Keynote Talk by Prof. T. V. Vijay Kumar, JNU, Delhi**	
12:00-12:45	**KN2: Keynote Talk by Prof. Tanmoy Chakraborty, IIT, Delhi (Online)**	
12:45-14:00	**Lunch Break**	
14:00-15:30	**TS1: Technical Session 1 @ Conference Hall, SVBP Guest House**	
	Paper Id	***Title***
	6	*Detecting Suspicious Lexical and Contextual Patterns in Domain Names Using a CNN-Bidirectional LSTM Hybrid Approach*
	11	*DDoS detection in cloud using target OS parameters and page transition*
	23	*A Privacy Preserving Federated Learning Framework with Multi-Key Homomorphic Encryption for Collaborative Malware Analysis in Cyber Forensics*
	50	*Significance of Digital Identity Management in the Metaverse*

	21	*Volatile Memory Forensics of Electrum Bitcoin Wallets: Artifact Recovery and Security Implications*
	59	*Comparative Analysis of Graph-Based Approaches for Malware Detection in Cloud Environment*
15:30-15:45	**Tea Break**	
15:45-17:15	**TS2: Technical Session 2 @ Conference Hall, SVBP Guest House**	
	Paper Id	***Title***
	56	*AI Agentic Framework for Advanced NLP Network Intelligence*
	62	*An Interpretable and Efficient Baseline for Speaker Verification: A Distance-Centric Logistic Regression Approach*
	67	*Next-Generation Vulnerability Assessment: Agentless AI-Powered Framework*
	80	*A Cyber Forensics Approach to FPV and Non-FPV Drone Technologies*

DAY-2: 22st November 2025

Time	Session Details	
8:30-9:30	Conference Breakfast	
11:00-13:00	**TS3: Technical Session 3 Google Meet Link**	
	Paper Id	***Title***
	5	*Finite State Machine Framework for Mobile Malware Detection on Data at Rest and in Transit.*
	18	*Simplifying Network Forensics with a Low Weight Modular Packet Sniffer for Cybersecurity Applications*
	24	*Video Authentication in Digital Forensics: A Systematic Approach*
	26	*A secure and lightweight framework for IoT enabled implantable medical devices*
	33	*AI-Driven Optimization for Blockchain Efficiency: A Framework Integrating ML and DL Techniques for Scalability, Security, and Performance Sets*
13:00-14:00	**Lunch Break**	
14:00-16:00	**TS4: Technical Session 4 Google Meet Link**	
	Paper Id	***Title***
	16	*Secure Real-Time Object Detection on UAVs Using YOLO11n with Per-Frame SHA-256 Logging*
	43	*Sustainable High-Throughput Ensemble Threat Detection on UNSW-NB15 via Multi-Stage Anomaly Detection Pipeline*
	45	*Proactive AI-driven SDN framework for Intelligent Threat Detection in Healthcare Systems*
	54	*A Multi-Level Explainable AI Framework for Legally Admissible IoT Forensic Evidence*

	64	*TB-IDS: A Hybrid Cryptographic and Transformer-Based Intrusion Detection Framework for Secure and Adaptive IoT Communication*
	65	*Analysing Cross-Site Scripting (XSS) Detection Tools*
16:00-17:00	**KN3: Keynote Talk by Prof. S. S. Iyengar, Florida International University, USA.**	

DAY-3: 23st November 2025

Time	Session Details	
8:30-9:30	Conference Breakfast	
9:30-11:30	**TS5: Technical Session 5 Google Meet Link**	
	Paper Id	***Title***
	53	*Unveiling Malicious Behavior: A Dynamic Analysis Approach with ANY.RUN*
	66	*Botnet Detection on CTU-13 Using Lightweight Machine Learning Models*
	69	*Securing Web Applications Against SQL and NoSQL Injections: A Comprehensive Study of Threats and Prevention Strategies*
	70	*Advancements and Challenges in Digital Forensics: A Study of Emerging Domains*
	75	*A Hybrid Deep Learning and Threat Intelligence-Driven Framework for Filtering Malicious DNS Traffic*
	82	*Adaptive Stealth Attacks on IIoT Network: A Simulation-based Comparative Study of Reinforcement Learning Approaches using CyberBattleSim*
11:30 -12:00	**Tea Break**	
12:00-12:30	**Closing Ceremony**	
12:30-14:00	**Lunch Break**	

Note: 15 minutes time is allotted for the presentation and 05 minutes for the question answer.