

18th International Conference on Information Systems Security (ICISS 2022)
IIT Tirupati, December 16-20, 2022

Session	Time	Paper/Keynote	Presenter
Friday, December 16th 2022			
Welcome	08:00 - 09:30	Registration / Networking	
Session - 1	09:30 - 13:00	Techniques of Malware Design/Deployment (Part - 1) Tea Break from 11:30 - 11:45	Saurabh Sharma (Kaspersky)
	13:00 - 14:00	Lunch Break	
Session - 2	14:00 - 16:00	An Introduction to Mitre Att&ck and Framework	Harshal Tupsamudre (Qualys)
	16:00 - 16:15	Tea Break	
Session - 3	16:15 - 18:15	Techniques of Malware Design/Deployment (Part - 2)	Saurabh Sharma (Kaspersky)
Saturday, December 17th 2022			
Inauguration	09:00 - 09:30	Welcome Address	
Session - 4 Chair: Dr Somnath Tripathy (IIT Patna)	09:30 - 10:30	Keynote Talk: The Rise of Cyber Physical Security – In Light of Cyber Physical Systems	Dr Chandrakant D. Patel Mr Himanshu Dubey
	10:30 - 11:00	Invited Talk: Advanced Persistent Threats: A Study in Indian Context	
	11:00 - 11:30	Generating-Set Evaluation of Bloom Filter Hardening Techniques in Private Record Linkage - <i>Karin Mortl (University of Denver, USA); Rinku Dewri (University of Denver, USA)</i>	
Session - 5 Chair: Dr Rinku Dewri (DU, USA)	11:30 - 11:45	Tea Break	
	11:45 - 12:15	Ostinato: Cross-host Attack Correlation through Attack Activity Similarity Detection - <i>Sutanu Kumar Ghosh (University of Illinois, USA); Kiavash Satvat (University of Illinois, USA); Rigel Gjomemo (University of Illinois, USA); Venkat.N. Venkatakrishnan (University of Illinois, USA)</i>	
	12:15 - 12:45	SHIELD: A Multimodal Deep Learning Framework For Android Malware Detection - <i>Narendra Singh (IIT Patna, India); Somanath Tripathy (IIT Patna, India); Bruhadeshwar Bezawada (IIT Jammu, India)</i>	
	12:45 - 13:15	Samyukta: A Unified Access Control Model using Roles, Labels, and Attributes - <i>Radhika B S (IIIT Dharwad, India); N V Narendra Kumar (IDRBT, India); R K Shyamasundar (IIT Bombay, India)</i>	
Session - 6 Chair: Dr Shalini Kesar (SUU, USA)	13:15 - 14:00	Lunch Break	
	14:00 - 15:00	1. IoTInDet: Detecting Internet of Things Intrusions with Class Scatter Ratio and Hellinger Distance Statistics - <i>Bhuvaneswari Amma N G (Vellore Institute of Technology, India); Valarmathi P (Vellore Institute of Technology, India)</i>	
		2. WiP: Control Plane Saturation Attack Mitigation in Software Defined Networks - <i>Neminath Hubballi (IIT Indore, India); Kanishk Patel (IIT Indore, India)</i>	
		3. WiP: EventTracker-Event Driven Evidence Collection for Digital Forensics - <i>Aniket Sangwan (IIT Indore, India); Sarthak Jain (IIT Indore, India); Neminath Hubballi (IIT Indore, India)</i>	
	15:00 - 15:30	Efficient and Effective Static Android Malware Detection Using Machine Learning - <i>Vidhi Bansal (Indira Gandhi Delhi Technical University for Women, India); Mohona Ghosh (Indira Gandhi Delhi Technical University for Women, India); Niyati Baliyan (Indira Gandhi Delhi Technical University for Women, India)</i>	
15:30 - 16:00	MILSA: Model Interpretation based Label Sniffing Attack in Federated Learning - <i>Debasmita Manna (IIT Patna, India); Harsh Kasyap (IIT Patna, India); Somanath Tripathy (IIT Patna, India)</i>		
Session - 7*	16:00 - 16:15	Tea Break	Vijayakumar Manjunatha (eMudhra) Saurabh Sharma (Kaspersky)
	16:15 - 18:15	Secure Digital Transformation Leveraging Aadhaar (Part 1)	
	16:15 - 18:15	Techniques of Malware Design/Deployment (Part 3)	
Sunday, December 18th 2022			
Session - 8 Chair: Dr Sithu D Sudarsan (CDAC)	09:30 - 10:30	Keynote Talk: Security and Privacy in Federated Learning	Prof Ling Liu
	10:30 - 11:00	DKS-PKI: A Distributed Key Server Architecture for Public Key Infrastructure - <i>Abu Faisal (Queen's University, Canada); Mohammad Zulkernine (Queen's University, Canada)</i>	
	11:00 - 11:30	Detecting Cloud originated DDoS attacks at the source using Out-cloud attack detection (OCAD) - <i>Gulshan Kumar Singh (Central University of Rajasthan, India); Gaurav Somani (Central University of Rajasthan, India)</i>	
Session - 9	11:30 - 11:45	Tea Break	Dr Anil Kapoor
	11:45 - 13:00	Panel Discussion on Cybersecurity Challenges in National Security	
	13:00 - 14:00	Lunch Break	
Session - 10 Chair: Dr Praveen Gauravaram (TCS-Research)	14:00 - 15:00	Keynote Talk: Research and Engineering Challenges of Blockchain and Web3	Dr Ashish Kundu
Session - 11*	15:00 - 16:00	Secure Digital Transformation Leveraging Aadhaar (Part 2)	Vijayakumar Manjunatha (eMudhra)
	15:00 - 16:00	Techniques of Malware Design/Deployment (Part 4)	Saurabh Sharma (Kaspersky)
	16:00 - 16:15	Tea Break	
Session - 12 Chair: Dr Mahendran V (IIT Tirupati)	16:15 - 17:15	Keynote Talk: Web3 and the Interoperability of Asset Networks	Dr Thomas Hardjono
	17:15 - 18:15	Business Meeting (On Invitation)	
Dinner	19:30 - 21:30	Banquet Dinner - Venue (will be updated)	

Monday, December 19th 2022			
Session - 13 Chair: Dr Neminath Hubballi (IIT Indore)	09:30 - 10:00	Invited Talk: Securing Cyber-Physical and IoT Systems in Smart Living Environments	Prof Sajal Das
	10:00 - 11:00	1. Mining Attribute-Based Access Control Policies - <i>Maryam Davari (Queen's University, Canada); Mohammad Zulkernine (Queen's University, Canada)</i>	
	11:00 - 11:30	2. Preventing Privacy-Violating Information Flows in JavaScript Applications using Dynamic Labelling - <i>Sandip Ghosal (Uppsala University, Sweden); R. K. Shyamasundar (IIT Bombay, India)</i> 3. On the Impact of Model Tolerance in Power Grid Anomaly Detection Systems - <i>Srinidhi Madabhushi (University of Denver, USA); Rinku Dewri (University of Denver, USA)</i>	
	11:30 - 11:45	Tea Break	
Session - 14 Chair: Dr Kalidas Y (IIT Tirupati)	11:45 - 12:45	Keynote Talk: Technology Transfer from Security Research Projects: A Personal Perspective	Prof Asokan
	12:45 - 13:00	WiP: Characterizing the Impact of Multiplexed DoS Attacks on HTTP and Detection - <i>Shaurya Sood (IIT Indore, India); Pritesh Palod (IIT Indore, India); Neminath Hubballi (IIT Indore, India)</i>	
	13:00 - 14:00	Lunch Break	
Session - 15 Chair: Dr Shachee Mishra (IBM-Research) & Dr Sajal Das (MUST, USA)	14:00 - 15:00	PhD Forum Poster Presentations	
	15:00 - 16:00	An Overview of Encrypted Traffic Analysis for Cyber Security (Part 1)	Debapriyay Mukhopadhyay (Vehere Technologies)
Session - 16*	15:00 - 16:00	Techniques of Malware Design/Deployment (Part 5)	Saurabh Sharma (Kaspersky)
	16:00 - 16:15	Tea Break	
Session - 17*	16:15 - 18:15	An Overview of Encrypted Traffic Analysis for Cyber Security (Part 2)	Debapriyay Mukhopadhyay (Vehere Technologies)
	16:15 - 18:15	Techniques of Malware Design/Deployment (Part 6)	Saurabh Sharma (Kaspersky)

Tuesday, December 20th 2022			
Tirumala Darshan	Morning	Tirumala Special Entry Darshan will be arranged for interested participants Darshan Entrance Ticket of Rs 300/- to be borne by the participants	

* marked Tutorial sessions will happen in parallel