Program for Day 1 (December 16, Saturday)

08:00 onwards	ICISS 2023 Registration
09:30 - 10:00 Inauguration	Welcome Address N V Ramana Rao, Director, NIT Raipur (Patron) Opening Remarks about the ICISS Series RK Shyamasundar, IIT Bombay (General Chair) ICISS 2023 Overview, Release of Springer Online Proceedings, Agenda V Muthukkumarasamy, Griffith University (PC Co-chair) SD Sudarsan, CDAC (PC Co-chair) Chandrashekar Jatoth, NIT Raipur (Local Organizing Co-chair)
10:00 - 11:00 Keynote Session Chair: RK Shyamasundar	How to Train and Use Al Models on Sensitive Data without Compromising Privacy? Nishanth Chandran (Microsoft Research, India)
11:00 - 11:30	Tea Break
11:30 - 12:30 Session 1: Systems Security Session Chair: Ram Krishnan	A Security Analysis of Password Managers on Android Abhyudaya Sharma and Sweta Mishra (Shiv Nadar University, India) The Design and Application of a Unified Ontology for Cyber Security (online) Khandakar Ashrafi Akbar, Fariha Ishrat Rahman, Anoop Singhal, Latifur Khan and Bhavani Thuraisingham (University of Texas at Dallas, USA)
12:30 - 14:00	Lunch Break
14:00 - 15:20 Session 2: Systems Security Session Chair: Nishanth Chandran	Big Data Forensics on Apache Kafka Thomas Mager (Independent Researcher, Germany) A Survey on Security Threats and Mitigation Strategies for NoSQL Databases MongoDB as a Use Case Surabhi Dwivedi, Balaji Rajendran, Praveen Ampatt and S D Sudarsan (CDAC Bengaluru, India) Theoretical Enumeration of Deployable Single-output Strong PUF Instances based on Uniformity and Uniqueness Constraints Venkata Sreekanth Balijabudda, Kamalesh Acharya, Rajat Subhra Chakraborty and Indrajit Chakrabarti (IIT Kharagpur, India)
15:20 - 15:40	Tea Break
15:40 - 18:30 Tutorials Session Chair: Rakesh Tripathi	Vajra: A Tool for Endpoint Management and Threat Detection Manjesh Kumar Hanawal and Atul Kabra (IIT Bombay, India) Data Anonymization Techniques Vishwas Patil (IIT Bombay, India)

Program for Day 2 (December 17, Sunday)

	Frogram for Day 2 (December 17, Sunday)
09:30 - 10:30 Keynote Session Chair: RK Shyamasundar	hinTS: Threshold Signatures with Silent Setup (online) Sanjam Garg (UC Berkeley)
10:30 - 11:00	Tea Break
11:00 - 12:30 Session 3: Blockchains Session Chair: Balaji Rajendran	Ensuring Data Security in the Context of IoT Forensics Evidence Preservation with Blockchain and Self-Sovereign Identities (online) Cristian Alves dos Santos, Leandro Loffi and Carla Merkle Westphall (Federal University of Santa Catarina, Brazil) Analysis of Optimal Number of Shards using ShardEval, A Simulator for Sharded Blockchains Vishisht Priyadarshi, Sourav Goel and Kalpesh Kapoor (IIT Guwahati, India) SoK: Digital Signatures and Taproot Transactions in Bitcoin Anubha Jain and Emmanuel S Pilli (MNIT Jaipur, India)
12:30 - 14:00	Lunch Break
14:00 - 15:00 Session 4: Blockchains Session Chair: N Subramanian	Crypto-Ransomware Detection: A Honey-file-based approach using chi-square test Ajith Arakkal, Shehzad Pazheri Sharafudheen and Vasudevan A R (NIT Calicut, India) PSDP: Blockchain-Based Computationally Efficient Provably Secure Data Possession Jayaprakash Kar (LNMIIT Jaipur, India) Private and Verifiable Inter-bank Transactions and Settlements on Blockchain Harika Narumanchi, Maddali Lakshmipadmaja and Nitesh Emmadi (TCS Research, India)
15:00 - 17:00 PhD Forum & Industry Demo Session Chair: Radhika BS & Neminath Hubballi	PhD Forum Lightning Talks (5 mins/submission) Paper ID: 117, 119, 126, 127, 129, 132, 133, 120, 121 Industry/Demo Track Demos + Poster Presentations of PhD Forum Paper ID: 114, 115 (over a long Tea Break; after the Lightning Talks)
17:00 - 17:40 Session 5: Privacy Session Chair: SD Sudarsan	Attack on the Privacy-Preserving Carpooling Service TAROT Meghana Vargheese and Srinivas Vivek (IIIT Bangalore, India) Democracy in Your Hands!: Practical Multi-Key Homomorphic E-Voting Tanusree Parbat, Aniket Banerjee and Ayantika Chatterjee (IIT Kharagpur, India)
17:40 - 18:10	Business Meeting: Announcements related to the future editions of ICISS All are invited.

Program for Day 3 (December 18, Monday)

09:30 - 10:30	
Session 6:	Detection and Hardening Strategies to Secure an Enterprise Network Preetam Mukherjee, Sabu M Thampi, Rohith N, Bishwajit Kumar Poddar and
Network Security	Ipshita Sen (Digital University Kerala, India)
Session Chair: Radhika BS	Attack Graph Based Security Metrics For Dynamic Networks Ayan Gain and Mridul Sankar Barik (Jadavpur University, India)
10:30 - 11:00	Tea Break
	An Energy-conscious surveillance scheme for intrusion detection in underwater sensor networks using Tunicate swarm optimization Kammula Sunil Kumar, Veena Anand and Deepak Singh (NIT Raipur, India)
11:00 - 12:30 Session 7: Crypto	Secured Collaboration with Ciphertext Policy Attribute Based Signcryption in a Distributed Fog Environment for Medical Data Sharing Thushara G A and S. Mary Saira Bhanu (NIT Trichy, India)
Session Chair: Vishwas Patil	Verifiable Timed Accountable Subgroup Multi-signatures (online) Duygu Ozden and OĞuz Yayla (Middle East Technical University, Turkey)
	Escrow and Pairing Free CP-ABE Scheme with Forward and Backward Secrecy for Healthcare Internet of Things Sourabh Bhaskar, Keyur Parmar and Devesh C. Jinwala (SVNIT Surat, India)
12:30 - 14:00	Lunch Break
14:00 - 15:00 Invited Talk Session Chair: Vishwas Patil	Follow the Money (online) Thomas Silkjær (XRP Ledger Foundation, Denmark)
15:00 - 15:30	Tea Break
	BCTPV-NIZK: Publicly-verifiable non-interactive zero-knowledge proof system from minimal blockchain assumptions Nimish Mishra and SK Hafizul Islam (IIIT Kalyani, India)
15:30 - 17:40	Proof-of-Variable-Authority: A blockchain consensus mechanism for securing IoT networks
Session 8: Blockchains	Pavithra Rajan, Lenoah Chacko, Varun Anilkumar and Vinod Pathari (NIT Calicut, India)
Session Chair: Virendra Singh	An Efficient Two-Party ECDSA Scheme for Cryptocurrencies Habeeb Syed, Arinjita Paul, Meena Singh and Rajan Ma (TCS Research & Innovation Lab, India)
	Secure Smart Grid Data Aggregation Based on Fog Computing and Blockchain Technology Kamalakanta Sethi, Aniket Agrawal and Padmalochan Bera (IIIT Sri City, India)

Program for Day 4 (December 19, Tuesday)

09:30 - 10:30 Session 9: Security using Al/ML Session Chair: Chandrashekar Jatoth	STN-Net: A Robust GAN-Generated Face Detector Tanusree Ghosh and Ruchira Naskar (IIEST Shibpur, India) MDLDroid: Multimodal Deep Learning based Android Malware Detection Narendra Singh and Somanath Tripathy (IIT Patna, India)
10:30 - 11:00	Tea Break
11:00 - 12:30 Session 10: Security using AI/ML Session Chair: Satya Prakash Sahu	A Cycle-GAN Based Image Encoding Scheme for Privacy Enhanced Deep Neural Networks David Rodriguez and Ram Krishnan (University of Texas at San Antonio, USA) Secure KNN Computation On Cloud Tikaram Sanyashi, Nirmal Kumar Boran and Virendra Singh (NTNU, Norway) A Multi-Stage Multi-Modal Classification Model for DeepFakes Combining Deep Learned and Computer Vision Oriented Features Arnab Kumar Das, Soumik Mukhopadhyay, Arijit Dalui, Ritaban Bhattacharya and Ruchira Naskar (IIEST Shibpur, India)
12:30 - 14:00	Lunch Break
14:00 - 15:00 Invited Talk Session Chair: Vishwas Patil	Covert & Side Stories: Threats Evolution in Traditional and Modern Technologies (online) Mauro Conti (University of Padua, Italy and TU Delft, Netherlands)
15:00 - 15:30	Tea Break
15:30 -	ICISS 2023 Closing Ceremony Local Organising Committee of ICISS 2023

















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