

ICSP 2025

Friday, December 05, 2025

CT: Contributed Talks, KL: Keynote Lecture

8:45-9:15	Registration		
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9:30-10:15	Inaguration and Welcome Remarks		
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	Keynote Lecture I		
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11:00-11:55	KL	Prof. Avishek Adhikari Presidency University, Kolkata, India	Securing Visual Data: A Secret Image Sharing Approach
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	Keynote Lecture II		
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12:00-12:55	KL	Prof. Santanu Sarkar Department of Mathematics, IIT Madras, India	45 years attacks on RSA
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13:00-14:30	Lunch Break		
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	Keynote Lecture III		
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14:30-15:25	KL	Prof. Claude Carlet Emeritus of Mathematics University of Paris 8, Laboratory LAGA France	A notion of S-boxes for a partial Resistance to some integral attacks
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	Keynote Lecture IV		
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15:30-16:25	KL	Dr. Sushmita Ruj School of Computer Science and Engineering at UNSW, Sydney, Australia	Post Quantum Cryptography for Blockchains
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	Paper and Abstract Presentation I		
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16:30-16:45	CT	Suraj S. Jadhav Chaitanya N. Kadadas, Raviranjana Kumar, Shreenivas G. Margamwar, Shubhashri G. Joshi, Jayaraj U. Kidav	Design and Implementation of a Cybersecurity- Enhanced In Four-Channel EEG Monitoring System Using Eight Electrodes
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16:45-17:00	CT	Rajakumar Arul Divyaansh Agarwal, Kalaipriyan Thirugnanasambandam	Review on the Implications of crystals Kyber in LTE networks
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17:00-17:15	Tea Break		
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	Paper and Abstract Presentation II		
17:15-17:30	CT	Jhanvi Arora Surjit Singh, Jolly Puri	Scalable Dual-Stage Design for Robust Security in WSNs
17:30-17:45	CT	Bhagyasri Bora Dharitri Brahma, Amitava Nag	A Lightweight Intrusion Detection Framework for IoT Using Fisher Score Feature Filtering and ML Models

Saturday, December 06, 2025

	Keynote Lecture V		
09:00-09:55	KL	Prof. Khoa Nguyen Information School of Computing and Information Technology (SCIT), University of Wollongong (UOW), Australia	Privacy-Preserving Disclosure in Multi-User Authentication Systems
	Keynote Lecture VI		
10:00-10:55	KL	Dr. Y Sreenivasa Rao Department of Mathematics, NIT Warangal, India	Challenges in Designing Searchable Encryption

11:00-11:15	Tea Break		
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	Paper and Abstract Presentation III		
11:15-11:30	CT	J Dharani K Sundarakantham, D Nagendra Kumar, Kunwar Singh	Privacy-Preserving Auditable Authentication Scheme for Vehicular Ad-hoc Networks

11:30-11:40	CT	Rajat Ranjan Priyadarshi Jasvinder Pal Singh Virdi, Jhasaketan Bhoi	Analytical Solutions of the Modified Nonlinear Dispersive Evolution Equation via NAEM, (G'/G) -Expansion, and Tan-Cot Function Methods with Parameter Matching and Stability Analysis
11:40-11:50	CT	Hitarth Rana Jay Mehta	Safest-Value of the Number of Primes in RSA Modulus and an Improvised Generalized Multi-Moduli RSA
11:50-12:00	CT	P. Subbulakshmi S. Sarah Surya	A Spectral Graph-Theoretic Approach to Symmetric Key Generation in Flow-Based Systems
12:00-12:10	CT	Pushparajsinh Parmar Jay Mehta	A new cryptosystem with enhanced RSA security and forward secrecy: A hybrid approach

	Paper and Abstract Presentation IV		
12:10-12:25	CT	Purushothama B R Gaurav Pareek	Fortifying Security: Towards Strong Active Outsider Resilient CRT-Based Group Key Management
12:25-12:40	CT	Moh. Toheed Anshika Singh, Rashmi Rathi Upadhyay, Kanika Singla	Simulating Multi-Agent Reasoning for Diverse and Adaptive Career Strategies: A Review
12:40-12:55	CT	Sai Vinay Chode Vijayaraghavan Veeramani, Laavanya Mohan, Visali Janga	Smart Detection of Indian counterfeit Currency notes using deep learning Techniques

13:00-14:30	Lunch Break
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	Tutorial Talk	
14:30-15:30	Dr. Vikas Srivastava Department of Mathematics, NIT Warangal, India	Introduction to Hash- Based Signatures

Paper and Abstract Presentation V			
15:30-15:45	CT	Ekant Kumar Buda Kamalesh Acharya, Amit Kumar Singh, Anwesh Mishra	Dynamic and Adaptive Broadcast Encryption for VANETs Supporting Inclusive-Exclusive Properties
15:45-16:00	CT	Rabiranjana Mohanta Kamalesh Acharya	Some Properties of Higher Order Mersenne and Gaussian Higher Order Mersenne Polynomials

19:00-21:00	Grand Dinner
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Sunday, December 07, 2025

Keynote Lecture VII			
10:00-10:55	KL	Prof. Rajat Subhra Chakraborty Professor, Department of Computer science, and Engineering IIT Kharagpur, India	Differential Cryptanalysis of Cryptographic Permutation and Lightweight Block Cipher through Visualization and Deep Convolutional Neural Network

11:00-11:15	Tea Break
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Paper and Abstract Presentation VI			
11:15-11:30	CT	Nagesh Bhatta Sristy Kalidindi Pavan Teja Satya Varma, G.Balasaisrujanakumarrao	Enhancing Privacy in Distributed Systems with Laplace Quantization Mechanism
11:30-11:45	CT	Venkata Madhu Soumya Bapatla Shashi Mogalla	Hybrid DCGAN-ResNet50 model for Fake Face Detection
11:45-12:00	CT	Ankit Kumar Singh Pranav P S S, Parth Nagar, M S Srinath	A Quorum-based Privacy-Preserving Distributed Learning Framework for Anomaly Detection
12:00-12:10	CT	Pratik Ranjan Abu Faizan Jilani, Mariya Tahera	Forged Transaction in Current AePS Module

12:10-12:20	CT	Rabiranjana Mohanta Hrishikesh Mahato	On the k-binomial and Catalan transform of the higher order Mersenne sequence
12:20-12:30	CT	Jambu Sherpa Gokul K.C	Applications of Quantum Fourier Transform Beyond Period Finding
12:30-12:40	CT	Nar Bahadur Tamang Gokul K.C	Mathematical Foundations of Ring-LWE: Number Fields & Ideal Lattices

13:00-14:30	Lunch Break		
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Paper and Abstract Presentation VII			
14:30-14:45	CT	Anushka Tushar Seth Shubhangi Gawali, Amy Corman, Neena Goveas, Asha Rao	Encrypted training using logistic regression with different polynomial approximations of sigmoid function
14:45-14:55	CT	Gokul K. C Samir Shrestha	Security Analysis of Central Bank Digital Currency (CBDC) in Nepal
14:55-15:05	CT	Badri Tamang Gokul K.C	Gröbner Bases and Their Algorithms: A Study of Buchberger, F4, and F5 Methods
15:05-15:20	CT	Prem Prakash Dahal Gokul K.C	Multivariate Quadratic Polynomials in Public Key Cryptography: A Study of the Rainbow Scheme

15:30-16:00	Valedictory and Vote of Thanks		
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