

CT: Contributed Talks, KL: Keynote Lecture

Wednesday, November 20, 2024

9:00–9:30	Registration		
10:00–10:45	Inaguration and Welcome Remarks		
	Keynote Lecture I, Session Chair: Dr. Kamalesh Acharya		
11:00–11:55	KL	Dr. Debasish Roy IPS, DG & IGP Railways, West Bengal, India	Quantum Computing on Boolean Functions
	Keynote Lecture II, Session Chair: Dr. Mriganka Mandal		
12:05–13:00	KL	Dr. Jintai Ding Professor of Mathematics, Tsinghua University, Beijing, China	Post-quantum Cryptography, A New Era
13:00–14:30	Lunch		
14:30–15:30	Workshop on Quantum Cryptanalysis I		
	Paper and Abstract Presentation I, Session Chair: Dr. Sourav Das		
15:35–15:50	CT	Debasish Roy Suman Dutta, Aarav Jaiswal, Subhamoy Maitra	On (Noisy) Simon's (Quantum) Algorithm for Multi-shift Boolean Functions
	Keynote Lecture III, Session Chair: Dr. Sreenivasa Rao Y		
16:00–16:55	KL	Dr. Anupam Chattopadhyay Associate Professor, School of Computer Science and Engineering, NTU Singapore	Security and Privacy of Machine Learning
17:00–17:15	Tea Break		
17:15–18:00	Workshop on Quantum Cryptanalysis II		
19:00–21:00	Grand Dinner		

Thursday, November 21, 2024

Paper and Abstract Presentation II, Track I			
Session Chair: Dr. Sourav Das			
08:15–08:30	CT	Swayam Sopnic Nayak Dumesh Meher	Illuminating the Dark Web: Enhancing Investigations with OSINT Techniques
08:30–08:45	CT	Hitarth Rana Jay Mehta	Generalized multi-moduli RSA: a new approach towards increasing the security of multi-prime RSA
08:45–09:00	CT	Tapaswini Mohanty Vikas Srivastava, Y. Sreenivasa Rao	An Efficient and Secure Quantum Group Signature with Applications to Vehicular Ad Hoc Networks
Paper and Abstract Presentation II, Track II			
Session Chair: Dr. Kunal Dey			
08:00–08:15	CT	Gatram Sravan Kumar Kamalakanta Sethi, Piyush Joshi, Padmalochan Bera	Advanced Image Steganography: Leveraging SLIC and QWT for Robust Data Hiding
08:15–08:30	CT	Zeenath A U Lakshmy KV, Chungath Srinivasan	Construction of Boolean functions with 2k-valued Walsh Spectrum and High Nonlinearity
08:30–08:45	CT	Debapriyay Mukhopadhyay	Efficient Implementation of Modular Multiplicative Inverse w.r.t 2^i
Paper and Abstract Presentation II, Track III			
Session Chair: Dr. Vikas Srivastava			
08:00–08:15	CT	Manish Kumar Pandit Sangram Ray, Priyanka Das	MAP-ECC: Mutual Authentication Protocol for e-Agriculture using ECC
08:15–08:30	CT	Soumen Bajpayee Sarbani Sen, Prithwish Dey, Imon Mukherjee	A Quantum Public Key Cryptographic Scheme using Entangled States and Grover Operator
08:30–08:45	CT	Anupama Mishra Vivek Katiyar	A Machine Learning-Based Surveillance Model

Keynote Lecture IV, Session Chair: Dr. Sumit Kumar Debnath			
09:15–10:15	KL	Dr. Saibal Kumar Pal Senior Scientist, SAG Lab, Defense Research & Development Organization, Delhi, India	Long-Term Cryptographic Security

10:15–10:30	Tea Break		
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Keynote Lecture V, Session Chair: Dr. Sreenivasa Rao Y			
10:30–11:30	KL	Dr. Subhamoy Maitra Professor (HAG) and Head, Applied Statistics Unit, Indian Statistical Institute, Kolkata, India	A Cryptographic View to Quantum Paradigm

Paper and Abstract Presentation II			
Session Chair: Dr. Subhamoy Maitra			
11:35–11:50	CT	Ramprasad Sarkar Utkarsh Sahai, Mriganka Mandal	On the Security of AMRIBE, Anonymous Multi-receiver Identity-based Encryption

Keynote Lecture VI, Session Chair: Dr. Sourav Das			
12:00–12:55	KL	Dr. Ratna Dutta Associate Professor, Department of Mathematics, Indian Institute of Technology Kharagpur, India	Post Quantum Secure MFHE and IPFE in Unbounded Setting for Untrusted Cloud Environment - Instantiation and Implementation

13:00–14:30	Lunch		
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Paper and Abstract Presentation III, Track I			
Session Chair: Dr. Vikas Srivastava			
14:30–14:45	CT	Nilin Prabhaker Rahul Maurya, Ghanshyam S Bopche, Michael Arock	Generation of Believable Fake Integral Equations for Cyber Deception
14:45–15:00	CT	Kuldeep Namdeo Dheerendra Mishra, Namita Srivastava	Algebraic Cryptanalysis and countermeasures of Lightweight Signature Scheme based on Multivariate Quadratic Polynomials
15:00–15:15	CT	Narendra Kumar Ch Dinesh Kumar	A Secure and Decentralized EHR System Using Blockchain and IPFS

15:15–15:30	CT	Sonam Mandal Rakesh Kumar Sinha	EEG changes detection in Traumatic Brain Injury with Artificial Intelligence
Paper and Abstract Presentation III, Track II			
Session Chair: Dr. Tanmay Choudhury			
14:30–14:45	CT	Yenugupalli Prasanna Kumar Valli Kumari Vatsavayi	SQL Injection Detection
14:45–15:00	CT	Akanksha Singh Saurabh Rana, Harish Chandra	SIS-Based Signature Schemes and Their Countermeasures: From Vulnerability to Vigilance
15:00–15:15	CT	Teodor C Curcudel	A Security and Privacy Model For Automotive
15:15–15:30	CT	Scutaru Iulian-Tudor Other Author Names	Quantum-Resistant Attribute-Based Encryption based on McEliece

Keynote Lecture VII, Session Chair: Dr. Subha Sarkar			
15:45–16:45	KL	Dr. Sourav Mukhopadhyay Professor, Department of Mathematics, Indian Institute of Technology Kharagpur, India	How Secure is Your Data? Exploring the Power of Public Key Encryption, Functional Encryption, and Fully Homomorphic Encryption

17:00–17:30	Valedictory and Vote of Thanks		
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