

Pre-Conference Workshop on 6th February, 2019 (VENUE – Campus 15, Research Lab)

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| 09:30 - 10:00 | Registration | Campus 15 |
| 10:00 - 12:00 | KEYNOTE TALK I | Research Lab |
| 12:00 - 12.30 | Interaction I | Research Lab |
| 13:00 - 14:00 | LUNCH | Campus 15 |
| 14:30 - 15:30 | KEYNOTE TALK II | Research Lab |
| 15:30 - 16:30 | KEYNOTE TALK III | Research Lab |
| 16.30 - 16.45 | HIGH TEA | Campus 15 |

KEYNOTE TALK I:

Topic: RSA and Beyond: Future of Cryptography

Speaker: Rajendra Kumar Sharma, Professor & Former Head, Department of Mathematics, IIT Delhi, India

KEYNOTE TALK II:

Topic: Broadcast Encryption

Speaker: Kamalesh Acharya, Post-doctoral Fellow, NISER, Bhubaneswar, India

KEYNOTE TALK III:

Topic: Intelligent Tools for a Digital Library

Speaker: Debarshi Kumar Sanyal, National Digital Library of India (NDLI), IIT Kharagpur and Associate Professor, School of Computer Engineering, KIIT

Schedule for Conference on 7th – 9th Feb, 2019

7th February, 2019 (VENUE – Campus 6, Conference Hall 8)

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| 09:30 - 10:00 | Registration | Campus 6 |
| 10:00 - 11:00 | KEYNOTE TALK I | Conference Hall 8 |
| 11:00 - 11.15 | HIGH TEA | Campus 6 |
| 11:15 - 13:00 | Paper Presentation I | Conference Hall 8 |
| 13:30 - 14:30 | LUNCH | Campus 6 |
| 14:30 - 15:30 | KEYNOTE TALK II | Conference Hall 8 |
| 15:30 - 16:30 | Paper Presentation II | Conference Hall 8 |
| 16.30 - 16.45 | HIGH TEA | Campus 6 |

KEYNOTE TALK I:

Topic: Anomaly Detection and Identification of Natural Data Using Benford's Law

Speaker: Anthony TS Ho, Professor of Multimedia Security, University of Surrey, UK

KEYNOTE TALK II:

Speaker: S. Ponnusamy, F. N. A.Sc., Professor, Department of Mathematics, IIT Madras, India

8th February, 2019 (VENUE – Campus 6, Conference Hall 8)

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|---------------|------------------------|-------------------|
| 09:30 - 10:00 | Registration | Campus 6 |
| 10:00 - 11:00 | KEYNOTE TALK III | Conference Hall 8 |
| 11:00 - 11.15 | HIGH TEA | Campus 6 |
| 11:15 - 13:00 | Paper Presentation III | Conference Hall 8 |
| 13:30 - 14:30 | LUNCH | Campus 6 |
| 14:30 - 15:30 | KEYNOTE TALK IV | Conference Hall 8 |
| 15:30 - 16:30 | KEYNOTE TALK V | Conference Hall 8 |
| 16.30 – 16.45 | HIGH TEA | Campus 6 |
| 18:00 - 19:00 | Inauguration | Conference Hall 8 |
| 19:00 onwards | BANQUET DINNER | KIIT Rose Garden |

KEYNOTE TALK III:

Topic: Verifiable e-voting

Speaker: Feng Hao, Professor, Department of Computer Science, University of Warwick, UK

KEYNOTE TALK IV:

Topic: Authentication in a Network

Speaker: P. K. Saxena, Former Director, DRDO, SAG, Delhi, India

KEYNOTE TALK V:

Topic: IoT and its applications

Speaker: Sarbani Roy, Associate Professor, Department of Computer Science and Engineering, Jadavpur University, India

9th February, 2019 (VENUE – Campus 6, Conference Hall 8)

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| 10:00 - 11:00 | KEYNOTE TALK VI | Conference Hall 8 |
| 11:00 - 11.15 | HIGH TEA | Campus 6 |
| 11:15 - 12:15 | KEYNOTE TALK VII | Conference Hall 8 |
| 12.15 - 13.15 | KEYNOTE TALK VIII | Conference Hall 8 |
| 13:30 - 14:30 | LUNCH | Campus 6 |
| 14:30 - 15:30 | VALEDICTORY | Conference Hall 8 |

KEYNOTE TALK VI:

Topic: *Are We Aware of Simple Yet Deceiving Cyber Attacks?*

Speaker: Al-Sakib Khan Pathan, Associate Professor, Department of Computer Science and Engineering, Southeast University, Bangladesh

KEYNOTE TALK VII:

Topic: *Quantum Cryptography*

Speaker: Goutam Kumar Paul, Associate Professor, Cryptology and Security Research Unit (CSRU), R. C. Bose Centre for Cryptology and Security, Indian Statistical Institute Kolkata

KEYNOTE TALK VIII:

Topic: *Authentication Protocol for USB Mass Storage Devices*

Speaker: Debasis Giri, Associate Professor, Department of Information Technology, Maulana Abul Kalam Azad University of Technology, West Bengal, India

Paper Presentation I

Paper Title: Some Algebraic and Topological properties of Triple n-normed spaces

Authors: Tanweer Jalal and Ishfaq Ahmad Malik

Paper Title: Preventing Fault Attack on Stream Ciphers by Fault Detection and Correction

Authors: Swapan Maiti and Dipanwita Roy Chowdhury

Paper Title: Approximate Solution of Hypersingular Integral Equation by Using Differential Transform Method

Authors: Subhabrata Mondal and B N Mandal

Paper Title: Visual Secret Sharing Scheme with Distributed levels of Importance of Shadows

Authors: Sabyasachi Dutta, Tamal Bhore, Md Kutubuddin Sardar, Avishek Adhikari and Kouichi Sakurai

Paper Title: Conditions for Feedback Shift Registers to Generate Permutations

Authors: Vamshi Krishna Kammadanam, Virendra Sule and Yi Hong

Paper Title: A Guests Managing System with Lattice-based Verifier-local Revocation Group Signature Scheme with Time-bound keys

Authors: Maharage Nisansala Sevewandi Perera and Takeshi Koshiha

Paper Title: NCASH: Non-linear Cellular Automata based Hash function

Authors: Tapadyoti Banerjee and Dipanwita Roy Chowdhury

Paper Title: Zipper Rational Quadratic Fractal Interpolation Functions

Authors: Sangita Jha and A.K.B. Chand

Paper Title: A study of Damped Navier-Stokes Equations with Navier boundary conditions in n -spacial dimension

Authors: Subha Pal

Paper Presentation II

Paper Title: A Class of Sequence Spaces Defined by I -fractional Difference Operator

Authors: Sanjay Mahto and Parmeshwary Srivastava

Paper Title: Genetic Algorithm Based Fuzzy Programming Method for Multi-Objective Stochastic Transportation Problem Involving Three-parameter Weibull Distribution

Authors: Adane Abebaw Gessesse and Rajashree Mishra

Paper Title: Monotonicity Preserving Rational Cubic Graph Directed Fractal Interpolation Functions

Authors: Arya Kumar Bedabrata Chand and K. M. Reddy

Paper Title: On the Design of a Secure Anonymous User Authentication Scheme for Multiple Base Stations-based Wireless Sensor Networks

Authors: Soumya Banerjee, Vanga Odelu, Ashok Kumar Das, Samiran Chattopadhyay and Debasis Giri

Paper Title: Hybrid Numerical Additive Parameters Methods for the General Second Order Differential Equation

Authors: Sesappa A Rai

Paper Presentation III

Paper Title: Design of Hash Function Using Two Dimensional Cellular Automata

Authors: Tanushree Haldar and Dipanwita Roy Chowdhury

Paper Title: Theory and Application of Computationally Independent One-way Functions: Interactive Proof of Ability - Revisited

Authors: Sabyasachi Dutta and Kouichi Sakurai

Paper Title: Anonymous Fine-grained User Access Control Scheme for Internet of Things Architecture

Authors: Soumya Banerjee, Odelu Vanga, Ashok Kumar Das, Samiran Chattopadhyay and Debasis Giri

Paper Title: Monotonicity Preserving Rational Cubic Graph Directed Fractal Interpolation Functions

Authors: Arya Kumar Bedabrata Chand and K. M. Reddy

Paper Title: A Decision Making Framework for Green Supplier Selection Using FAHP and Taguchi Quality Loss Functions

Authors: Ashoke Kumar Bera, Dipak Kumar Jana, Debamalya Banerjee and Titas Nandy

Paper Title: Multi-Choice Multi-Objective Fractional Probabilistic Programming Problem

Authors: Berhanu Belay and Acharya Srikumar

Paper Title: \mathbf{A} -Fractal Rational Functions and Their Positivity Aspects

Authors: S. K. Katiyar and A. K. B. Chand

Paper Title: Double Lacunary Statistical Convergence of Weight g via Ideal in Topological Groups

Authors: Ekrem Savas

Paper Title: On λ - IDEAL Statistical Convergence of Weighted g For Multiple Sequences

Authors: Ekrem Savas

Paper Title: Weak Solutions to the Damped Navier-Stokes Equations Constructed by Semi-discretization are Suitable

Authors: Subha Pal