# Technical Program

## ICISS 2012


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<th>Time</th>
<th>1st Day, (15th December’ 2012)</th>
<th>2nd Day (16th December’ 2012)</th>
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| 9.00 AM to 11.00 AM | Password Based Authentication Schemes: Safety and Usability Analysis  
Presenter(s): Dr. Samrat Mondal | Digital watermarking techniques for JPEG2000 scalable image coding  
Presenter(s): Dr. Deepayan Bhownik |
| 11.00 AM to 11.30 AM | High Tea                                                                                                                                                        | High Tea                                                                                                                                                      |
| 11.30 AM to 1.30 PM | Content Based Video Copy Detection: Issues and Practices  
Presenter(s): Dr. Sanjoy Kumar Saha | Formal Verification of security protocols  
Presenter(s): Dr. Ansuman Banerjee and Ms. Nehul Jain |
| 1.30 PM to 3.00 PM | Lunch                                                                                                                                                           | Lunch                                                                                                                                                         |
| 3.00 PM to 5.00 PM | Multimedia Content Protection through Reversible Watermarking: Theory, Challenges and Solutions  
Presenter(s): Dr. Rajat S. Chakraborty and Ms. Ruchira Naskar | Crypto Hardware Design for Embedded Applications  
Presenters: Dr. Amlan Chakrabarti1 and Mr. Suman Sau |
17.12.2012

09:00  Registration

09:30  Inauguration

10:15  High Tea

11:00  Invited Talk I:

Fighting Malicious Software: Christopher Kruegel

12:00  Technical Session I: Software Security

VulnerableMe: Measuring Systemic Weaknesses in Mobile Browser Security

Chaitrali Amrutkar, Kapil Singh, Arunabh Verma and Patrick Traynor

Security Assessment of Node.js Platform

Andres Ojamaa and Karl Duuna

13:00  Lunch

14:30  Invited Talk II:

Foundations of Dynamic Access Control: Prasad Naldurg

15:30  Tea

16:00  Technical Session II: Access Control

Risk-Aware RBAC Sessions

Khalid Bijon, Ram Krishnan and Ravi Sandhu

A Cognitive Trust Model for Access Control Framework in MANET

Soumya Maity and Soumya Ghosh

Trust-OrBAC: A Trust Access Control Model in Multi-Organization Environments

Khalifa Toumi, Cesar Andres and Ana Cavalli

17:30  Student’s Forum Discussion


10:00  Invited Talk III:

On Policies and Intents: Matthew Bolton, Celeste Wallace and Lenore Zuck
11:00  Tea

11:30  Technical Session III: Covert Communications

ProtoLeaks: A Reliable and Protocol-Independent Network Covert Channel
Arne Swinnen, Raoul Strackx, Pieter Philippaerts and Frank Piessens

Keyless Steganography in Spatial Domain using Energetic Pixels
Goutam Paul, Ian Davidson, Imon Mukherjee and S. S. Ravi

Fuzzy Inference Rule based Reversible Watermarking for Digital Images
Ruchira Naskar and Rajat Subhra Chakraborty

13:00  Lunch

14:30  Technical Session IV: Network Security I

Secure Trust Metadata Management For Mobile Ad-Hoc Networks
Vivek Natarajan, Yi Yang and Sencun Zhu

Defence against Wormhole Attacks in Wireless Mesh Networks
Rakesh Matam and Somanath Tripathy

A Novel Key update Protocol in Mobile Sensor Networks
Sarita Agrawal, Rodrigo Roman, Manik Lal Das, Anish Mathuria and Javier Lopez

Autonomous Certification with List-based Revocation for Secure V2V Communication
Anup Kumar Bhattacharya, Abhijit Das, Dipanwita Roy Chowdhury, Arvind Iyer and Debojyoti Bhattacharya


10:00  Technical Session V: Database and Distributed Systems Security

Mitigating Insider Threat on Database Integrity
Weihan Li, Brajendra Panda and Qussai Yaseen

Coercion Resistant MIX for Electronic Auction
Jaydeep Howlader, Jayanta Kar and Ashis Kumar Mal

Verification of Money Atomicity in Digital Cash Based Payment System
Girish Chandra and Divakar Yadav
11:30  Tea

12:00  Technical Session VI: Network Security II

Cryptographic analysis of a type of sequence generators
Alberto Peinado and **Amparo Fuster-Sabater**

Certificate-Less on-demand Public Key Management (CLPKM) for Self-Organized MANETs
**Soumyadev Maity** and R. C. Hansdah

Computationally efficient Secure Access Control for Vehicular Ad Hoc Networks
**Y. Sreenivasa Rao** and Ratna Dutta

13:30  Lunch

15:00  Technical Session VII:

Tracking Insecure Information Flows: A Prototype Evaluator in ASF+SDF
Doaa Salem

Attacking Image based CAPTCHAs using Image Recognition Techniques
David Lorenzi, Jaideep Vaidya, Emre Uzun, Shamik Sural and Vijay Atluri

Correctness Verification in Database Outsourcing: A Trust Based Fake Tuples Approach
Simin Ghasemi, Morteza Noferesti, Mohammad Ali Hadavi, Sadegh Dorri Nogoorani and Rasool Jalili