

Technical Program

ICISS 2012

Tutorials: 15.12.2012 and 16.12.2012

	1 st Day, (15 th December' 2012)	2 nd Day (16 th December' 2012)
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 Bhowmik
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

18.12.2012

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

19.12.2012

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 Veri_ cation in Database Outsourcing: A Trust Based Fake Tuples Approach

Simin Ghasemi, Morteza Noferesti, Mohammad Ali Hadavi, Sadegh Dorri Nogoorani and Rasool Jalili