ICISS 2014 IDRBT Hyderabad
16 - 20 Dec 2014

Conference Program - Tentative
Pre Conference Tutorials
Dec 16 - Forenoon

Tue Dec 16 2014 FN 9:30 – 13.30

Tutorial 1
Title – Network Traffic Analysis and Anomaly Detection
Speaker - Dr. Narasimha Reddy, Texas A&M Univ, USA

Tutorial 2
Title – False Alarm Minimization
Speaker - Dr. Neminath Hubbali, IIT Indore
Pre Conference Tutorials
Dec 16 - Afternoon

Tue Dec 16 2014 14:00 – 18:00

Tutorial 3
Title – Evolutionary Computation in Cyber Security
Speaker - Prof. Dipankar Dasgupta, Univ of Memphis, Tennesse, USA

Tutorial 4
Title – Quantitative Security Analysis of Enterprise Systems: Techniques and Challenges
Speaker - Dr Anoop Singhal, NIST, USA
Pre Conference Tutorials
Dec 17 - Forenoon

Wed Dec 17 2014 9:30 – 13:30
Tutorial 5
Title – Targeted attacks and Advanced Persistent Threats
Speaker - Mr. Mayank Bhatnagar, McAfee, Bengaluru

Tutorial 6
Title – SCADA Security
Speaker - Mr. B. S. Bindhumadhava, CDAC, Bengaluru
Pre Conference Tutorials
Dec 17 - Afternoon

Wed Dec 17 2014 14:00 – 18.00
Tutorial 7
Title – Mobile Security
Speaker - Prof. Atul Prakash,
Univ of Michigan, USA
Conference Day 1 – Thu Dec 18

Thu Dec 18 2014 FN
09:00 - 10:00 Registrations

Inaugural Session

10:00 -10:10 Welcome by Director, IDRBT
10:10 – 10:20 General Chairs
10:20 – 10:30 Program Chairs

10:30 – 11:00 Inaugural address by
Chief Guest Dr C. RANGARAJAN

11:00 – 11:05 Vote of Thanks

11:05 – 11:30 Tea Break
Conference Day 1 – Dec 18

Thu Dec 18 2014 AN
Plenary Session - 1
Session Chair:

11.30 : 12:30 Key Note 1

Title:
Adversarial and Uncertain Reasoning for Adaptive Cyber Defense: Building the Scientific Foundation
Speaker:

Prof Sushil Jajodia, George Mason University, USA

12.30 -13:30 Lunch
Conference Day 1 – Dec 18

14.00 – 16:00 Technical Session 1 - Security Inferences (2 hours)
Session Chair:
Co Session Chair:

• Joachim Biskup and Marcel Preuß. Inference-Proof Data Publishing by Minimally Weakening a Database Instance (25+5Min)

• R. Ramanujam, Vaishnavi Sundararajan and S P Suresh. Extending Dolev-Yao with assertions (25+5Min)

• Koen Decroix, Denis Butin, Joachim Jansen and Vincent Naessens. Inferring Accountability from Trust Perceptions (25+5Min)

• Wilayat Khan, Stefano Calzavara, Michele Bugliesi, Willem De Groef and Frank Piessens. Client Side Web Session Integrity as a Non-Interference Property (25+5Min)
16:30 – 17:15 Technical Session 2

Location based Security Services (45 Min)

Session Chair:
Co Session Chair:

• Sumitra Biswal, Goutam Paul and Shashwat Raizada.
  Preserving Privacy in Location-Based Services using Sudoku Structures(25+5Min)

• Thong M. Doan, Han .N Dinh, Nam T. Nguyen and Phuoc T. Tran.
  Location Obfuscation Framework for Training - Free Localization System
  (SHORT PAPER)(12+3Min)
Conference Day 1 – Dec 18

17:00 – 18:30 **Business Meeting**

Chair: Prof Sushil Jajodia

Venue: Falaknama Palace
Conference Day 2 – Dec 19

Fri Dec 19 2014 FN
Plenary Session – 2

Session Chair:
9:30 – 10:30   Key Note 2

Title:
   **SNIPS: A Software-Defined Approach for Scaling Intrusion Prevention Systems via Offloading**

Speaker:
   **Dr Vyas Sekar**, Carnegie Mellon University, USA

10:30 – 11:00 Break
Conference Day 2 - Fri Dec 19

11:00 – 13:00 Technical Session 2 - **Security Policies (2 hours)**

Session Chair:
Co Session Chair:

- Arindam Roy, [Shamik Sural](#) and Arun Kumar Majumdar.  
  Impact of Multiple t-t SMER Constraints on Minimum User Requirement in  
  RBAC, (25+5Min)

- Sadhana Jha, Shamik Sural, Jaideep Vaidya and Vijayalakshmi Atluri;  
  Temporal RBAC Security Analysis using Logic Programming in the  
  Presence of Administrative Policies(25+5Min)

- Jaya Bhattacharjee, Anirban Sengupta and Chandan Mazumdar;  
  A Formal Methodology for Modeling Threats to Enterprise Assets  
  (25+5Min)

- Mukti Padhya and Devesh Jinwala.  
  A Novel Approach for Searchable CP-ABE with Hidden Ciphertext-Policy  
  (25+5Min)

13:00 – 14:00 Lunch Break
Conference Day 2 – Fri Dec 19
14:00 – 15:00 Plenary Session 3

Session Chair:
Key Note 3

Title:
The Bug that Bites

Speaker:
Herbert Bos, Vrije Universiteit Amsterdam, The Netherlands

15:00 – 15:30 Break
Conference – Day 2 – Dec 19
15:30 – 17:15 Technical Session 3

Security User Interfaces (1 hour 45 min)

Session Chair:
Co Session Chair:

- **Goutam Paul**, Pratik Sarkar and Sarbajit Mukherjee;
  Towards a more democratic mining in Bitcoins, (25+5Min)

- Peter Mayer, **Melanie Volkamer** and Michaela Kauer.
  *Basic Research on Graphical Authentication*(25+5Min)

- Hiten Choudhury, **Basav Roychoudhury** and **Dilip Saikia**;
  A Security Extension Providing User Anonymity and Relaxed Trust Requirement in
  Non-3GPP Access to The EPS(25+5Min)

- Xiaolei Li, Xinshu Dong and Zhenkai Liang;
  A Usage-Pattern Perspective for Privacy Ranking of Android Apps
  *(SHORT PAPER)*(12+3 Min)

17:15 - 17:30 Break
Conference Day 2 – Dec 19

17:30 – 18:30  Technical Session 3 - Forensics (1 hour)
Session Chair:
Co Session Chair

• Biswajit Halder, Rajkumar Darbar, Utpal Garain and Abhoy Ch. Mondal;
  Analysis of fluorescent paper pulps for detecting Counterfeit Indian paper money (25+5Min)
• Puneet Gupta and Phalguni Gupta;
  A Vein Biometric based Authentication System
  (SHORT PAPER) (12+3 Min)
• Pankaj Malviya and Ruchira Naskar;
  Digital Forensic Technique for Double Compression based JPEG Image Forgery Detection
  (SHORT PAPER) (12+3 Min)

18:30- 19:00 Break

19:00 – 20:00 Cultural Program
20:00 – 21:00 Conference Dinner
Conference Day 3 – Sat Dec 20

Plenary Session – 4
Session Chair:

9:30 – 10.30  Key Note 4
Title:
   Application Architectures for Critical Data Isolation

Speaker:
   Zhenkai Liang, National University of Singapore

10:30 – 11:00 Break
11:00 – 13:00 Technical Session 4

**Security Attacks (2 hours)**

Session Chair:  
Co Session Chair:

- **Anil Saini, Manoj Gaur, Vijay Laxmi**, Tushar Singhal and **Mauro Conti**.  
  Privacy Leakage Attacks in Browsers by Colluding Extensions (25+5Min)

- **Krishna Telikicherla, Venkatesh Choppella** and Bruhadeshwar Bezawada;  
  CORP: A browser policy to mitigate web infiltration attacks (25+5Min)

- Nilesh Chakraborty and Samrat Mondal;  
  An Improved Methodology Towards Providing Immunity Against Weak Shoulder Surfing Attack (25+5Min)

- **Tanmay Thakur and Rakesh Verma**;  
  Catching Classical and Hijack-based Phishing Attacks(25+5Min)

13.00 – 14.00 - Lunch Break
Conference Day 3 – Sat Dec 20

14:00 – 15:45 Technical Session 4

**Malware Detection (1 hour 45 min)**

Session Chair:
Co Session Chair:

- Paolo Rovelli and Ýmir Vigfússon;
  PMDS: Permission-based Malware Detection System (25+5 Min)

- Alexandre Vernotte, Frederic Dadeau, Franck Lebeau, Bruno Legeard, Fabien Peureux and François Piat;
  Efficient Detection of Multi-step Cross-Site Scripting Vulnerabilities (25+5 Min)

- Richard Gay, Jinwei Hu and Heiko Mantel.
  CliSeAu: Securing Distributed Java Programs by Cooperative Dynamic Enforcement (25+5 Min)

- Aditya Basu, Anish Mathuria and Nagendra Chowdary.
  Automatic Generation of Compact Alphanumeric Shellcodes for x86 (SHORT PAPER) (12+3 Min)

15:45.16:00 Break
Conference Day 3 – Sat Dec 20

16:00 – 16:30 Valedictory Session

- Awards Committee
- Awards
- Experience sharing/Feedback

16:30 Close