14th International Conference on Information Systems Security

IISc Bangalore (17-19 December, 2018)

Session	Time	Paper/Keynote	Authors/ Speaker
December 17, 2018 (Monday)			
Registration	8:30 - 9:30		
Welcome and Opening remarks	9:30 - 10:00		
Keynote 1	10:00 - 11:00	**Bots, Socks, and Vandals: An Overview of Malicious Actors on the Web**	**VS Subrahmanyam (Dartmouth)**
	11:00 - 11:15	Coffee Break	
Session 1 (UBIQUITOUS COMPUTING) 11:15 - 12:45	11:15 - 11:45	A Characterization of the Mass Surveillance Potential of Road Traffic Monitors	Kirk Boyer, Hao Chen, Jingwei Chen, Jian Qui and Rinku Dewri
	11:45 - 12:15	SecSmartLock: An Architecture and Protocol for Designing Secure Smart Locks	Bhagyesh Patil, Parjanya Vyas and R. K. Shyamasundar
	12:15 - 12:45	A Novel Multi-factor Authentication Protocol for Smart Home Environments	Nimmy K, Sriram Sankaran and Krishnashree Achuthan
	12:45 - 14:30	LUNCH (venue: IISc Main Guest House Lawn)	
Keynote 2	14:30 - 15:30	**Robust Physical-World Attacks on Deep Learning Visual Classifiers and Detectors**	**Atul Prakash (University of Michigan-Ann Arbor)**
	15:30 - 15:45	Coffee Break	
Session 2 (MODELING AND ANALYSIS OF ATTACKS) 15:45 - 17:15	15:45 - 16:15	Modeling and Analyzing Multistage Attacks Using Recursive Composition Algebra	Ghanshyam S. Bopche, Gopal N. Rai, B. M. Mehtre and G.R. Gangadharan
	16:15 - 16:45	RiskWriter: Predicting Cyber Risk of an Enterprise	Aditya K, Slawomir Grzonkowski and Nhienan Lekhac
	16:45 - 17:15	ProPatrol: Attack Investigation via Extracted High-Level Tasks	Sadegh M. Milajerdi, Birhanu Eshete, Rigel Gjomemo and Venkat Venkatakrishnan
December 18, 2018 (Tuesday)			
Keynote 3	9:00 - 10:00	**On The Security of Blockchain Consensus Protocols**	**Prateek Saxena (National University of Singapore)**
Session 3 (SMARTPHONE SECURITY) 10:00 - 11:00	10:00 - 10:30	SGP: A Safe Graphical Password System Resisting Shoulder-Surfing Attack on Smartphones	Suryakanta Panda, Madhu Kumari and Samrat Mondal
	10:30 - 11:00	Towards Accuracy in Similarity Analysis of Android Applications	Sreesh K, Renuka Kumar and Sreeranga Rajan
	11:00 - 11:15	Coffee Break	
Session 4 (CRYPTOGRAPHY AND THEORY) 11:15 - 12:45	11:15 - 11:45	Secret Sharing Schemes on Compartmental Access Structure in Presence of Cheaters	Jyotirmoy Pramanik, Partha Sarathi Roy, Sabyasachi Dutta, Avishek Adhikari and Kouichi Sakurai
	11:45 - 12:15	Privacy Preserving Multi-Server k-means Computation over Horizontally Partitioned Data	Riddhi Ghosal and Sanjit Chatterjee
	12:15 - 12:45	Secure Moderated Bargaining Game	Sumanta Chatterjee
	12:45 - 14:30	LUNCH (venue: IISc Main Guest House Lawn)	
Tutorial	14:30 - 16:00	**Secure Multi-party Computation**	**Nishant Chandran and Divya Gupta (MSR India)**
	16:00 - 16:15	Coffee Break	
Session 5 (ENTERPRISE AND CLOUD SECURITY) 16:15 - 17:45	16:15 - 16:45	SONICS: a segmentation method for integrated ICS and Corporate System	Khaoula Es-Salhi, Nora Cuppens and David Espes
	16:45 - 17:15	Proxy Re-encryption Scheme for Access Control Enforcement Delegation on Outsourced Data in Public Cloud	Gaurav Pareek and Purushothama B R
	17:15 - 17:45	From Cyber Security Activities to Collaborative Virtual Environments Practices through the 3D CyberCOP Platform	Alexandre Kabil, Thierry Duval, Nora Cuppens-Boulahia, Gerard Le-Comte, Yoran Halgand and Christophe Ponchel
	18:30 - 20:00	**BANQUET DINNER (venue: IISc Main Guest House)**	
December 19, 2018 (Wednesday)			
Keynote 4	9:00 - 10:00	**Specifying and Checking Data Use Policies**	**Sriram Rajamani (MSR India)**
Session 6 MACHINE LEARNING AND SECURITY 10:00 - 11:30	10:00 - 10:30	A Deep Learning based Digital Forensic Solution to Blind Source Identification of Facebook Images	Udaya Sameer Venkata, Ishaan Dali and Ruchira Naskar
	10:30 - 11:00	A Digital Forensic Technique for Inter-Frame Video Forgery Detection based on 3D CNN	Jamimamul Bakas and Ruchira Naskar
	11:00 - 11:30	Re-compression based JPEG Tamper Detection and Localization using Deep Neural Network, Eliminating Compression	Jamimamul Bakas, Praneta Rawat, Kalyan Kokkalla and Ruchira Naskar
	11:30 - 11:45	Coffee Break	
Session 7 (PRIVACY) 11:45 - 13:15	11:45 - 12:15	SeDiCom: A Secure Distributed Privacy-Preserving Communication Platform	Alexander Marsalek, Bernd Prünster, Bojan Suzic and Thomas Zefferer
	12:15 - 12:45	Efficacy of the Right-to-be-Forgotten on Facebook	Vishwas Patil and Rk Shyamasundar
	12:45 - 13:15	Analysis of Newer Aadhaar Privacy Models	Ajinkya Rajput and K. Gopinath
	13:15 - 14:30	LUNCH (venue: IISc Main Guest House Lawn)	
Tutorial	14:30 - 16:00	**Secure Machine Learning**	**Somesh Jha (University of Wisconsin-Madison)**
	16:00 - 16:15	Coffee Break	
Session 8 (CLIENT SECURITY AND AUTHENTICATION) 16:15 - 17:45	16:15 - 16:45	drPass: A Dynamic and Reusable Password Generator Protocol	Suryakanta Panda and Samrat Mondal
	16:45 - 17:15	MySecPol: A Client-Side Policy Language for Safe and Secure Browsing	Amit Pathania, Radhika B S and Rudrapatna Shyamasundar
	17:15 - 17:45	Gaze-Based Graphical Password Using Webcam	Abhishek Tiwari and Rajarshi Pal