ISEA-ISAP 2020

Third ISEA International Conference on Security and Privacy 2020 27 February - 1 March 2020, IIT Guwahati

Venue: Conference Center, IIT Guwahati

	Thursday, 27th February 2020 (Pre-Conference)		
Time	Event	Venue	
8:30 am – 9:15 am	Registration	Lobby	
9:15 am – 12:30 pm (15 mins tea break)	Tutorial 1: MITRE ATT&CK TM and Threat Intelligence Prof. Manikantan Srinivasan, IIT Madras, India	Hall 2	
(13 mms tea break)	Tutorial 2: Advanced Real World Pentesting Nishant Sharma & Jeswin P. Mathai, Pentester Academy	Hall 1	
12:30 pm – 1:30 pm	Lunch Break	Lobby	
1:30 pm – 4:45 pm	Tutorial 1 continued	Hall 2	
(15 mins tea break)	Tutorial 2 continued	Hall 1	
5:00 pm – 6:00 pm	Pre-conf talk: Tradeoff between Disclosable and Private Latent Information Revealed via Compressed One: an ADMM-Based Approach, Prof. Shuangqing Wei, Louisiana State University, USA	Hall 2	
	Friday, 28th February 2020		
9:00 am – 9:30 am	Registration	Lobby	
9:30 am – 11:00 am	Conference Inauguration and High Tea	Hall 2	
11:00 am –12:40 pm	Paper Session – T1 (4 papers)	Hall 2	
11.00 am –12.40 pm	Paper Session – T2 (4 papers)	Hall 1	
12:40 pm –2:00 pm	Lunch Break	Lobby	
2:00 pm – 3:00 pm	Keynote I: A New Quality-Time-As-An-Advantage Paradigm for Zero-Pre-Configuration Pairing Schemes for IoT Devices/ Networks, Prof. Guan Yong, Iowa State University, USA	Hall 2	
2.00 4.40	Paper Session – T3 (4 papers)	Hall 2	
3:00 pm – 4:40 pm	Paper Session – T4 (4 papers)	Hall 1	
4:40 pm – 5:00pm	Tea break	Lobby	
5:00 pm – 5:30 pm	Demonstration of Vishleshakee: An Online Social Media Analytic Tools, OSINT Lab, IIT Guwahati	Hall 2	
5:30 pm – 6:30 pm	Invited Talk by Defence Security Expert – AI in Cyber Defence Col. Inderjeet Singh (Retd) Chief Cyber Security Expert, Vara Tech Pvt Ltd	Hall 2	
7:00 pm – 8:00 pm	Cultural program, Announcement of Best Papers	Senate Hall	
8:15 pm onwards	Banquet	Lobby	

ISEA-ISAP 2020

Third ISEA International Conference on Security and Privacy 2020 27 February - 1 March 2020, IIT Guwahati

Venue: Conference Center, IIT Guwahati

Saturday, 29th February 2020		
9:00 am – 9:30 am	Registration	Lobby
9:30 am –10:30 am	Keynote II: Securing Hardware for Designing Trustworthy Systems, Prof. Prabhat Mishra, University of Florida, USA	Hall 2
10:30 am -11:00 am	Tea break	Lobby
11:00 am- 12:40 pm	Paper Session – T5 (3 papers)	Hall 2
12:40 pm –2:00 pm	Lunch Break	Lobby
2:00 pm – 2:45 pm	Keynote-III: Mastering the Social Networks, Prof. Rami Puzis, Ben-Gurion University, Israel	Hall 2
2:45 pm – 4:25 pm	Paper Session – T6 (4 papers)	Hall 2
	ISEA Appraisal Workshop	Hall 1
4:25 pm – 4:45 pm	Tea break	Lobby
4:45 pm – 7:00 pm 7:30 pm onwards	Industry Talk and Discussion (NXP, Cisco, Microsoft) Secure Connectivity for a Smarter World, Bedanta Choudhury, NXP Semiconductors, Noida Secure your organizations network, Prabhu Kumar, Cisco, Bangalore Android Threat Landscape- An industrial perspective, Aditi Bhatnagar, Microsoft IDC, Hyderabad	Lohby
7:30 pm onwards	Banquet Sunday, 1st March 2020	Lobby
9:00am – 11:00am	Doctoral Dissertation Presentation (6 thesis)	Hall 2
11:00am- 11:45am	PhD Forum Poster Demonstration and Tea Break	Lobby
11:45am –12:45pm	Keynote IV: Malware Analysis: Beating the Bad Guys Prof. Rajeev Barua, University of Maryland, USA	Hall 2
1:00pm – 1:30pm	Award presentation & Valedictory function	Hall 2
1:30pm onwards	Lunch Break	Lobby

Friday, 28th February 2020

T1.11	:00 am -12:40 pm; Session Chair - Prof. Sabu Emmanuel, IIT Palakkad
	,
T1-1	Security Notions for the VeraGreg Framework and Their Reductions [Paper id: 6]
T4 2	Jakub Klemsa and Ivana Trummova, Czech Technical University
T1-2	Singleton Flow Traceback (SFT) Mechanism (DDoS) [Paper id: 58]
T4 2	Ram Charan Baishya and Dhruba Bhattacharyya, Tezpur University
T1-3	A secured land registration framework on Blockchain [Paper id: 54]
	Meghali Nandi, Rajat Kanti Bhattacharjee, Amrit Jha and Ferdous Ahmed Barbhuiya,
	Indian Institute of Information Technology Guwahati
T1-4	Detection of DDoS Attack and Classification Using a Hybrid Approach [Paper id: 15]
	Suman Nandi, Santanu Phadikar and Koushik Majumder,
	Maulana Abul Kalam Azad University of Technology
T2. 11	1,00 am 12,40 mm, Sassian Chair Dr. Maumita Patra IIT Guyanhati
T2: 13	L:00 am –12:40 pm; Session Chair - Dr. Moumita Patra, IIT Guwahati
12-1	Implementation of AES Using Composite Field Arithmetic for IoT Applications [Paper id: 47]
	Thockchom Birjit Singha, Roy Paily Palathinkal and Shaik Rafi Ahamed,
	Indian Institute of Technology Guwahati
T2-2	On The DSA Key Recovery Attack with Variable Partial Nonces Known [Paper id: 45]
12-2	Jiji Angel and Virendra Singh, Indian Institute of Technology Bombay
T2-3	
12-3	Investigating Elliptic Curve Cryptography for Securing Smart Grid Environments [Paper id: 2]
	Deepak K and Chandrasekaran K., National Instiute of Technology Karnataka
T2-4	Secure transmission of Hyperspectral Images [Paper id: 34]
12-4	Oruganti Sai Srujana, Nikhil Mhala and Alwyn Pais, National Institute of Technology
	Karnataka
	Raillataka
T3: 3:0	00 pm – 4:40 pm; Session Chair - Dr. Santanu Phadikar, MAKAUT
T3-1	Graph Convolutional Nets for Android Malware Detection with System Call Graphs [Paper
	id: 70]
	Teenu John, Tony Thomas (Indian Institute of Information Technology and Management
	Kerala) and Sabu Emmanuel (Indian Institute of Technology Palakkad)
T3-2	An Approach to Identify Vulnerable Features of Instant Messenger [Paper id: 27]
	Vineeta Jain (NIT Jaipur), Divya Rishi Sahu (SATI Vidisha) and Deepak Singh Tomar (MANIT
	Bhopal)
T3-3	XSSD: A Cross-site Scripting Attack Dataset and its Evaluation [Paper id: 7]
	Upasana Sarmah, Dhruba Kumar Bhattacharyya (Tezpur University) and Jugal Kalita
	(Univeristy of Colorado, Colorado Springs)
T3-4	A Traffic Monitoring and Policy Enforcement Framework for HTTP [Paper id: 31]
	Navarikuth Muraleedharan, Anna Thomas, S Indu and B S Bindhumadhava, CDAC
	•
T4: 3:	00 pm – 4:40 pm; Session Chair – Prof. Ashok Kr. Turuk, NIT Rourkela
T4-1	Parallel Itoh-Tsujii inversion Algorithm for FPGA Platforms [Paper id: 12]
	Kalaiarasi M, Venkatasubramani Vr and Rajaram Sivasubramanian,
	Thiagarajar College of Engineering
T4-2	Inter-Planetary File System Enabled Blockchain Solution For Securing Healthcare Records
	[Paper id: 71]
	Raghavendra K M and Kiran Manjappa, National Institute of Technology Karnataka
T4-3	Implementation of Minimally Shared Blockchains using Big Data Applications [Paper id:
	16], Kausthav Pratim Kalita, Debojit Boro and Dhruba Kumar Bhattacharyya, , Tezpur
	University
T4-4	An Approach Towards Resisting Side-Channel Attacks for Secured Testing of Advanced
	Encryption Algorithm (AES) Cryptochip [Paper id: 68]
	Nandit Kaushik and Kusum Lata, The LNM Institute of Information Technology

Saturday, 29th February 2020

T5: 11	T5: 11:00am –12:40pm; Session Chair - Dr. Alwyn Pais, NIT Surathkal		
T5-1	Provisioning Privacy and Accountability in Participatory Sensing [Paper id: 35]		
	Tejendrakumar Thakur and Ningrinla Marchang,		
	North Eastern Regional Institute of Science and Technology		
T5-2	2SPUF: Machine Learning Attack Resistant SRAM PUF [Paper id: 66]		
	Vikash Kumar Rai, Somanath Tripathy and Jimson Mathew,		
	Indian Institute of Technology Patna		
T5-3	Enhancing Privacy in a Blockchain-based Public Key Infrastructure [Paper id: 33]		
	Amalan Joseph Antony A and Kunwar Singh, National Institute of Technology		
	Tiruchirappalli		
T6: 2:45 pm – 4:25 pm; Session Chair - Dr. Mayank Agarwal, IIT Patna			
T6-1	A LDPC codes based Authentication Scheme [Paper id: 25]		
	Apurva Kittur, Swapnil Kauthale and Alwyn Pais. National Institute of Technology		
	Karnataka		
T6-2	Security Testbed for Next Generation Mobile Networks [Paper id: 52]		
	Ashok Kumar, Ranjani Parthasarthi and Vetriselvi V.		
	College of Engineering, Guindy, Anna University		
T6-3	DeDOP: Deduplication with cross-server Ownership over encrypted data [Paper id: 14]		
	Hardik Gajera and Manik Lal Das, DA-IICT, Gandhinagar		
T6-4	Enhanced Anonymity: Customized for Roaming and Non-Roaming IoT-Devices in 5G		
	Mobile Network [Paper id: 22]		
	Hiten Choudhury, Cotton University		

Sunday, 1st March 2020

Docto	Doctoral Dissertation Presentation: 9:00am –11:00 am				
Session Chair - Dr. Chandan Karfa, IIT Guwahati					
1	Secure Multi-factor Authentication for Remote Login and Reallife Application, Ruhul Amin				
2	Design and Analysis of Techniques for Secure CloudStorage Services, Sanjeet Kumar				
	Nayak				
3	Analysis of Intra and Inter App(s) in Android, Shweta Bhandari				
4	DDoS Attacks in Cloud Computing, Gaurav Somani				
5	Investigating and Devising Privacy Preserving Approaches for Location Based Services,				
	Ruchika Gupta				
6	Distributed Denial of Service Attack Detection using Data Mining Techniques, Nazrul				
	Hoque				
	PhD Forum Poster Demonstration - 11:00 am - 11:45 am)				
1	Basavaraj Patil, SDM College of Engineering and Technology, Dharwad				
2	Dilay Parmar, S. V. National Institute of Technology (NIT), Surat				
3	Rupali Mahesh Chopade, College of Engineering Pune				
4	Ankur Bang, S. V. National Institute of Technology (NIT), Surat				
5	Bhuvaneswari Amma N.G., National Institute of Technology, Tiruchirappalli				
6	Ramanuj Chouksey, IIT Guwahati				
7	Shivanshu Mehta, S. V. National Institute of Technology (NIT), Surat				