Programme & Paper Session Schedule

October 13, 2017

Time	Activity	
2:00 PM-2:45 PM	**Inauguration** (New Auditorium)	
2:45 PM - 3:30 PM	**Keynote-1** (Dr. K D Nayak, Former Director General, Microelectronics and Computational Systems, DRDO, Ministry of Defence) "*India's Cyber Security Challenges and Opportunities*" (New Auditorium)	
3:30 PM - 4:15 PM	**Keynote-2** (Dr. Mauro Conti, Associate Professor, University of Padua, Italy) "*Can't You Hear Me Knocking: Novel Security and Privacy Threats to Mobile Users*" (New Auditorium)	
4:15 PM - 4:30 PM	**Tea Break**	
4:30 PM - 5:30 PM	**Session-1: Image Classification, Security and Steganography** Paper-ID: 32, 75, 76, 96 (Room No. 9, Academic Block-2)	**Session-2: Machine Learning and Attack Detection** Paper-ID: 26, 111, 112, 155 (Room No. 11, Academic Block-2)

October 14, 2017

Time	Activity	
10:00 AM - 10:50 AM	**Keynote-3** (Prof. Bimal Kumar Roy, Head, R C Bose Centre for Cryptology and Security, Indian Statistical Institute, Kolkata) "*Selected Sharing and Matroids*" (Room No. 9, Academic Block-2)	
10:50 AM - 11:10 AM	**Tea Break**	
11:10 AM - 12:00 PM	**Keynote-4** (Prof. Mohamed Mosbah, Professor, Polytechnic Institute of Bordeaux (Bordeaux INP), France) "*Models and Approaches for the Safety and the Security of Distributed Systems*" (Room No. 9, Academic Block-2)	
12:00 PM - 1:30 PM	**Session-3: Security Applications using Cryptography** Paper-ID: 68, 100, 120, 141, 152 (Room No. 9, Academic Block-2)	**Session-4: Security Architecture and Protocols** Paper-ID: 74, 95, 103, 105, 117 (Room No. 11, Academic Block-2)
1:30 PM - 2:30 PM	**Lunch**	

2:30 PM - 3:20 PM	**Keynote-5** (Prof. Suraj C. Kothari, Richardson Chair Professor, Iowa State University, USA, President, EnSoft Corp., USA) "*Software Security Headaches: Analgesic or Hospital?*" (Room No. 9, Academic Block-2)
	Keynote-6 (Dr. Akka Zemmari, Associate Professor, LaBRI - University of Bordeaux, France) "*Android Malware: Will machine learning be help in hand?*" (Room No. 11, Academic Block-2)
3:20 PM - 3:40 PM	**Tea Break**

3:40 PM - 5:10 PM	**Session-5: Data and System Analysis, Access Permission, and Secret Sharing** Paper-ID: 1, 18, 22, 25, 27, 99, 109, 116 (Room No. 9, Academic Block-2)	**Session-6: Threat, Anomaly and Malware Detection** Paper-ID: 46, 60, 63, 72, 98, 102, 130, 138 (Room No. 11, Academic Block-2)	**Session-7: Attacks and Defences** Paper-ID: 13, 56, 67, 79, 118, 128, 135,156 (Room No. 12, Academic Block-2)
8:00 PM Onwards	**Gala Dinner**		

October 15, 2017

Time	Activity	
10:00 AM - 10:50 AM	**Keynote-7** (Dr. Priyadarsi Nanda, Senior Lecturer, University of Technology Sydney, Australia) "*Software Defined Perimeter : A new way to protect Network Systems against Cyber Threats*" (Room No. 9, Academic Block-2)	
	Keynote-8 (Dr. Sushmita Ruj, Assistant Professor, Computer and Communication Sciences Division, Indian Statistical Institute, Kolkata) "*Blockchains for Secure Data Storage*" (Room No. 9, Academic Block-2)	
10:50 AM - 11:10 AM	**Tea Break**	
11:10 AM - 12:40 PM	**Session-8: Hash Functions, Cryptography and Cryptanalytic Attacks** Paper-ID: 17, 43, 65, 85, 150, 151 (Room No. 9, Academic Block-2)	**Session-9: Cloud Data Security, Access Control and Management** Paper-ID: 47, 91, 97, 108, 144 (Room No. 11, Academic Block-2)
12:40 PM - 1:30 PM	**Valedictory** (New Auditorium)	

Paper Session Schedule

<table>
<tr><td colspan="3">13-10-2017 (4:30 PM – 5:30 PM) Room No. 9, Academic Block 2
Session-1: Image Classification, Security and Steganography</td></tr>
<tr><td>Paper ID</td><td>Title of the Paper</td><td>Author(s) Name</td></tr>
<tr><td>75</td><td>Extended Multi-Spectral Imaging For Gender Classification Based On Image Set</td><td>Raghavendra Ramachandra; Narayan Vetrekar; Kiran Raja; Rajendra Gad; Christoph Busch</td></tr>
<tr><td>76</td><td>Collaborative Representation of Grassmann Manifold Projection Metric For Robust Multi-Spectral Face Recognition</td><td>Kiran Raja; Narayan Vetrekar; Raghavendra Ramachandra; Rajendra Gad; Christoph Busch</td></tr>
<tr><td>96</td><td>Image Encryption Using Wavelet Transform Over Finite Field</td><td>Vivek Khalane; Umesh Bhadade</td></tr>
<tr><td colspan="3">13-10-2017 (4:30 PM – 5:30 PM) Room No. 11, Academic Block 2
Session-2: Machine Learning and Attack Detection</td></tr>
<tr><td>Paper ID</td><td>Title of the Paper</td><td>Author(s) Name</td></tr>
<tr><td>26</td><td>A Comparative Analysis of Machine Learning Techniques For Botnet Detection</td><td>Ankit Bansal; Sudipta Mahapatra</td></tr>
<tr><td>111</td><td>Evaluating Machine Learning Algorithms For Detection of Interest Flooding Attack in Named Data Networking</td><td>Naveen Kumar; Shashank Srivastava</td></tr>
<tr><td>112</td><td>Feasibility of Idle Port Scanning Using RST Rate-Limit</td><td>Ronak Odhaviya</td></tr>
<tr><td>155</td><td>Identification of Gait Data Using Machine Learning Technique To Categorize Human Locomotion</td><td>Anubha Parashar; Apoorva Parashar; Somya Goyal</td></tr>
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14-10-2017 (12:00 PM – 1:30 PM) Room No. 9, Academic Block 2
Session-3: Security Applications using Cryptography

Paper ID	Title of the Paper	Author Name
68	Sensitivity of Majority Flipping Attack To Erroneous Inputs	Hariharan S; Devesh Nag; Dheerendra Singh
100	Privacy Preserving Two-Server Diffie-Hellman Key Exchange Protocol	Durbadal Chattaraj; Monalisa Sarma;Debasis Samanta
120	Proxy Visible Re-Encryption Scheme With Application to E-Mail Forwarding	Gaurav Pareek Goa; Purushothama B R
141	A Model of a Secure Electronic Voting System Based on Blind Intermediaries Using Russian Cryptographic Algorithms	Ilya Pisarev; Lyudmila Babenko; Oleg Makarevich
152	Element-Key Table Based Complex Key Generation (E-CKG) For IOT Based Healthcare Networks	Manoj Bohra; Shailja Dahiya

14-10-2017 (12: 00 PM – 1:30 PM) Room No. 11, Academic Block 2
Session-4: Security Architecture and Protocols

Paper ID	Title of the Paper	Author(s) Name
74	Component-Centric Application-Driven Framework Towards Taming Privilege Separation in Android	Swati Gaur; Aastha Maheshwari
95	Network Security Architectures For VANET	Maxim Kalinin; Vasiliy Krundyshev; Peter Zegzhda; Viacheslav Belenko
103	Modeling of Information Systems To Their Security Evaluation	Poltavtseva Maria; Pechenkin Alexander; Dmitry Zegzhda; Peter Zegzhda
105	Tamperproof Complex Event Processing in IOT Devices Using Side Channel Information	Rajesh Shrivastava; Sanket Mishra; Srimanta Barua; Chittaranjan Hota
117	Attribute-Based Approach of Defining The Secure Behavior of Automata Objects	Fedor Novikov; Ludmila Fedorchenko; Vladimir Vorobiev; Roza Fatkieva; Dmitriy Levonevskiy

14-10-2017 (3:40 PM – 5:10 PM) Room No. 9, Academic Block 2 **Session-5: Data and System Analysis, Access Permission and Secret Sharing**		
Paper ID	**Title of the Paper**	**Author(s) Name**
1	Language Usage on Twitter Predicts Crime Rates	Abdulaziz Almehmadi; Zeinab Joudaki; Roozbeh Jalali
18	Permission Recommender System For Android	Ankur Shukla; Divya Vikash;Bharavi Mishra; Poonam Gera
22	Secret Sharing Scheme Based on Cauchy Matrix For Data Outsourcing	Vishnu Prasad
27	Analysis and Comparison of Electronic Digital Signature State Standards GOST R 34.10-1994, GOST R 34.10-2001 and GOST R 34.10-2012	Alexander Menshchikov; Antonina Komarova; Yuriy Gatchin; Nina Tishukova; Anatoly Korobeynikov
99	Analysis of Ways to Secure Group Control For Autonomous Mobile Robots	Elena Basan; Alexander Basan; Oleg Makarevich
116	Parameters of The Two-Stage Synchronization Algorithm For The Quantum Key Distribution System	Evgeny Rudinsky; Konstantin Rumyantsev
14-10-2017 (3:40 PM – 5:10 PM) Room No. 11, Academic Block 2 **Session-6: Threat, Anomaly and Malware Detection**		
Paper ID	**Title of the Paper**	**Author(s) Name**
46	Insider Threat Detection Using Principal Component Analysis and Self-Organising Map	Naghmeh Moradpoor
60	Anomaly Detection Survey For Information Security	Harsurinder Kaur; Husanbir Singh Pannu
63	Practical Challenges in Building Fake Services With the Record and Play Approach	Jani Tammi; Sampsa Rauti; Ville Leppänen
72	Internal Interface Diversification With Multiple Fake Interfaces	Sampsa Rauti; Ville Leppänen
98	'Global View' in SDN: Existing Implementation, Vulnerabilities & Threats	Ajay Nehra; Meenakshi Tripathi
102	Integer Overflow Vulnerabilities Detection in Software Binary Code	Roman Demidov; Alexander Pechenkin; Peter Zegzhda
130	Malware Detection by Meta-Information of Used System Functions	Alexey Kirillov; Lyudmila Babenko
138	A Novel Malware Analysis for Malware Detection and Classification Using Machine Learning Algorithms	Kamalakanta Sethi; Shankar Chaudhary; Bata Krishna Triphaty; Padmalochan Bera
14-10-2017 (3:40 PM – 5:10 PM) Room No. 12, Academic Block 2 **Session-7: Attacks and Defenses**		
Paper ID	**Title of the Paper**	**Author(s) Name**
13	Cooperation Based Defense Mechanism against Selfish Nodes in DTNs	Jaina Bhoiwala

56	SMITE: An SDN and MPLS Integrated Traceback Mechanism	Pynbianglut Hadem; Dilip Kumar Saikia
67	Performance Impact of Topology Poisoning Attack in SDN and its Countermeasure	Nivindar Kaur; Ashutosh Singh
79	Unmasking of Source Identity, a Step Beyond in Cyber Forensic	Rachana Patil; Satish Devane
106	Detecting Android application malicious behaviors based on the analysis of control flows and data flows	Evgeny Pavlenko ; Peter Zegzhda; Dmitry Zegzhda ; Andrew Dremov
128	CAP: Collaborative Attack on Pastry	Srikanta Pradhan; Somanath Tripathy
135	Abnormal Leakage of Energy in Battery-Based IOT-Devices	Rajbir Kaur; Raksha Nawal
156	Flooding in Secure Wireless Sensor Networks	Jimmy Bondu; Enseirb-Matmeca; Anupal Mishra; Vijay Laxmi; Manoj Gaur
15-10-2017 (11:10 AM – 12:40 PM) Room No. 9, Academic Block 2 **Session-8: Hash Functions, Cryptography and Cryptanalytic Attacks**		
Paper ID	**Title of the Paper**	**Author(s) Name**
17	The Duality Principle in The Theory of Development Generalized A-M Knapsack Cryptosystems	Valeriy Osipyan; Nina Laktionova; Nadezhda Vakhrusheva
43	Light-Weight Hash Algorithms Using GRP instruction	Mahaveer Soni Surathkal; Alwyn Pais
65	ApproxHash: Delay, Power and Area Optimized Approximate Hash Functions for Cryptography Applications	Sunil Dutt; Bikram Paul; Anshu Chauhan; Sukumar Nandi; Gaurav Trivedi
85	An Enhanced Parallel Version of RSA Public Key Crypto Based Algorithm Using OpenMP	Rahul Saxena; Monika Jain
150	Differential Analysis of 3 Round Kuznyechik	Evgenia Ishchukova; Lyudmila Babenko; Ekaterina Tolomanenko
151	Two Simplified Versions of Kuznyechik CipherR (GOST R 34.12-2015)	Evgenia Ishchukova; Lyudmila Babenko; Maxim Anikeev

15-10-2017 (11:10 AM – 12:40 PM) Room No. 11, Academic Block 2
Session-9: Cloud Data Security, Access Control and Management

Paper ID	Title of the Paper	Author(s) Name
47	A Universal User Revocation Scheme With Key-Escrow Resistant for Ciphertext-Policy Attribute-Based Access Control Systems	Ferdous Barbhuiya; Nazatul Sultan; Nitiyananda Sharma
91	Redesign CloudRAID For Flexible and Secure Enterprise File Sharing Over Public Cloud Storage	Muhammad Ihsan Haikal Sukmana; Kennedy Torkura; Meinel Christoph; Hendrik Graupner
97	Secure and Efficient Proof of Ownership for Deduplicated Cloud Storage	Jay Dave; Parvez Faruki; Vijay Laxmi; Bruhadeshwar Bezawada; Manoj Gaur
108	A Framework For Data Security in The Cloud Using Collaborative Intrusion Detection Scheme	Upasana Nagar
144	Integration of Role Based Access Control With Homomorphic Cryptosystem for Secure and Controlled Access of Data in Cloud	Kamalakanta Sethi; Anish Chopra;Bata Krishna Triphaty;Padmalochan Bera