

**Pre-Conference Tutorials (December 16 - 17, 2019)**

**Day 1: Monday, December 16, 2019**

Timings	Session	Speaker
11.00 am – 12.30 pm	Registrations	
12.30 – 1.30 pm	Lunch	
01.30 – 05.30 pm	<p align="center"><b><u>Tutorial</u></b>            Digital Forensics – Process, Tools and Challenges</p>	<p align="center"><b>Shri. Manish Tembhurkar,</b>            Technical Director in cyber security practice of KPMG in India;</p> <p align="center"><b>Shri. Sravan</b>            Associate Director in KPMG's India Forensic Technology Services practice;</p> <p align="center"><b>Shri. Varun Dwivedi</b></p>

**Day 2: December 17, 2019 (Tuesday)**

Timings	Session	Speaker
9.30 am – 1.30 pm	<p align="center"><b><u>Tutorial</u></b>            Capitalizing on DevOps</p>	<p align="center"><b>Shri. Tushar Jangle,</b>            Chief Architect – Cloud Practice, Persistent Systems Ltd.;</p> <p align="center"><b>Shri. Sajauddin Mohammad,</b>            DevOps Consultant – Persistent Systems Ltd.</p>
1.00 – 2.00 pm	Lunch	
1.30 – 05.30 pm	<p align="center"><b><u>Tutorial</u></b>            Android Malware Prediction using Machine Learning Techniques</p>	<p align="center"><b>Lov Kumar,</b>            Assistant Professor in Department of Computer Science and Information Systems at BITS Pilani-Hyderabad, India</p> <p align="center"><b>Abhay Kumar,</b>            Data Scientist in Sutherland global Services</p>

## Main Conference (December 18 - 20, 2019)

### Day 3: December 18, 2019 (Wednesday)

Timings	Session
9.00 – 10.00 am	Registration and Networking
10.00 – 11.00 am	<p style="text-align: center;"><u>Inauguration</u></p> <p style="text-align: center;"><b>Chief Guest: Shri G. Padmanabhan</b> Non-executive Chairman, Bank of India Former Executive Director, Reserve Bank of India.</p>
11.00 am – 12.00 pm	High Tea
12.00 – 1.00 pm	Session – I: Smart Contracts
Paper Presentations	<p><b>#24: A Transparent and Privacy-Aware Approach Using Smart Contracts for Car Insurance Reward Programs</b> Lucas M. Palma, Fernanda O. Gomes, Martín Vigil and Jean E. Martina</p> <p><b>#19: WiP: Criminal Smart Contract for Private Key Theft in End to End Encrypted Applications</b> Priyanka Pal, S. Rohith Balaji and Sudharsana K J L</p>
1.00 – 2.00 pm	Lunch
2.00 – 4.00 pm	Session II: Formal Techniques
2.00 – 3.00 pm	<p><u>Invited Talk – I</u></p> <p><b>Secure Messaging: Towards Verified Standards and High Assurance Implementations</b> Karthikeyan Bhargavan</p>
3.00 – 3.30 pm	Tea Break
3.30 – 4.00 pm Paper Presentation	<p><b>#38: Trustworthy Isolation of DMA Enabled Devices</b> Jonas Haglund and Roberto Guanciale</p>
4.00 – 5.30 pm	Session III: Access Control
Paper Presentations	<p><b>#21: Toward Implementing Spatio-Temporal RBAC Extensions</b> Aditya Dubey, Uttara Ravi, Somya Sharma and Barsha Mitra</p> <p><b>#64: VisMAP: Visual Mining of Attribute-Based Access Control Policies</b> Saptarshi Das, Shamik Sural, Jaideep Vaidya, Vijayalakshmi Atluri and Gerhard Rigoll</p> <p><b>#46: Policy Reconciliation and Migration in Attribute Based Access Control</b> Gunjan Batra, Vijayalakshmi Atluri, Jaideep Vaidya and Shamik Sural</p>

**Day 4: December 19, 2019 (Thursday)**

Timings	Session
9.30 – 11.00 am	Session IV: Machine Learning
Invited Talk - II	<b>Trusting Machine Learning: Privacy, Robustness, and Interpretability Challenges</b> Reza Shokri
Paper Presentation	<b>#44: WiP: Generative Adversarial Network for Oversampling Data in Credit Card Fraud detection</b> Akhilesh Kumar Gangwar and Vadlamani Ravi
11.00 – 11.30 am	Tea Break
11.30 am – 1.00 pm	Session V: Distributed Systems
Invited Talk - III	<b>An Introduction to the CellTree Paradigm</b> Manoj Prabhakaran
Paper Presentation	<b>#25: Secure Information Flow Analysis Using the PRISM Model Checker</b> Ali A. Noroozi, Khayyam Salehi, Jaber Karimpour and Ayaz Isazadeh
1.00 – 2.00 pm	Lunch
2.00 – 4.00 pm	Session VI: Cryptography
Paper Presentations	<b>#37: Selective End-To-End Data-Sharing in the Cloud</b> Felix Hörandner, Sebastian Ramacher and Simon Roth <b>#40: Cloud Data Sharing and Device-Loss Recovery with Hardware-Bound Keys</b> Felix Hörandner and Franco Nieddu <b>#54: Item-based Privacy Preserving Recommender System with Offline Users and Reduced Trust Requirements</b> Pranav Verma, Anish Mathuria and Sourish Dasgupta <b>#36: Wip: Degree Evaluation of Grain-v1</b> Deepak Kumar Dalai and Santu Pal
4.00 – 5.00 pm	Business Meeting (open to all)
5.00 – 5.30 pm	High Tea
5.30 – 7.30 PM	Cultural Programme
7.30 pm	Banquet Dinner

**Day 5: December 20, 2019 (Friday)**

Timings	Session
9.00 – 11.00 am	Session VII: Online Social Networks
9.00 – 10.00 am Invited Talk - IV	<b>Privacy, Fairness, Transparency, and Abuse of Targeted Advertising on Social Media</b> Krishna Gummadi
10.00 – 10.30 am	Tea Break
10.30 – 11.00 am Paper Presentation	<b>#41: A Novel k-Anonymization Approach to Prevent Insider Attack in Collaborative Social Network Data Publishing</b> Bintu Kadhiwala and Sankita J. Patel
11.00 am – 12.00 pm	Session VIII: Images and Cryptography
Paper Presentations	<b>#57: WiP: Security Enhanced Size Invariant Visual Cryptography with Perfect Reconstruction of White Pixels</b> Jisha T E and Thomas Monoth  <b>#34: A New High Capacity and Reversible Data Hiding Technique for Images</b> Eram Fatima and Saiful Islam
12.00 – 12.30 pm	Tea Break
12.30 – 1.30 pm	Session IX: Miscellaneous mix
Paper Presentations	<b>#8: Anti-forensics of a NAD-JPEG detection scheme using Estimation of DC coefficients</b> Arkaprava Bhaduri Mandal and Tanmoy Kanti Das  <b>#55: Differential Attack Graph-based Approach for Assessing Change in the Network Attack Surface</b> Ghanshyam S. Bopche, Gopal N. Rai, B. Ramchandra Reddy and B. M. Mehtre
1.30 – 2.30 pm	Lunch