







Internet of Things - Security by Design

Speakers Profile & Title of the Talk

Sl no	Speaker	Speaker Profile and Topic
1.	 <p style="text-align: center;">Dr. Sanjeev Malhotra CEO at Centre of Excellence for IOT, (NASSCOM)</p>	<p>Dr. Sanjeev Malhotra, CEO at Centre of Excellence for IOT, (NASSCOM)</p> <p>Key member for Digital transformation at the ground level – Co creating solutions to real problems. #Innovate2Solve. Developing IOT Ecosystem for product innovation and its adoption. Driving the Co-creation of IoT solutions in different verticals like Manufacturing, Auto/Transport, Healthcare, Energy and Agriculture. This is one of the biggest centres that will incubate and accelerate start-ups focused on IOT/Robotics/Automation (ML/AI) and drive the adoption of these solutions in the Industry.</p> <p>Talk Topic: NASSCOM CoE initiatives in IoT</p>
2.	<p style="text-align: center;">Dr A Linga Murthy</p>	<p>Guest of Honour at the inaugural session.</p> <p>Society for Integrated Circuit Technology and Applied Research (SITAR)</p>
3.	 <p style="text-align: center;">Dr. Sarat Chandra Babu, Executive Director, C-DAC Bangalore</p>	<p>Dr. Sarat Chandra Babu, Executive Director, C-DAC Bangalore</p> <p>Dr. Sarat, presently positioned the Executive Director of C-DAC, Bangalore, had obtained his Ph.D. from IIT, Delhi. At C-DAC, Dr. Sarat is now leading the teams with R&D projects in the areas of HPC, Cyber security, Internet of Things and Big Data Analytics. Prior to this assignment, Dr. Sarat was the Director of C-DAC, Hyderabad centre. Dr.Sarat worked at various levels in the Department of Electronics, Govt. of India (Presently Ministry of Electronics & Information Technology-MeitY). He worked for the R&D(in switching) of Indian Telephone Industries Ltd., (ITI) and contributed to the First digital exchange of India.</p> <p>Inaugural Address</p>
4.	 <p style="text-align: center;">Dr. Arvind Tiwary, TiE</p>	<p>Dr. Arvind Tiwary, TiE</p> <p>Technopreneur. Senior IT executive and has 30+ years of multi-disciplinary experience in Financial Services and Information Technology from sales to executive management and project management to enterprise architecture. Multi-cultural experience across the entire range of Insurance in mature markets like Europe, Japan and USA and growth markets like India and China. Excels in synthesizing different points of view and developing balanced conclusions; seeing themes and patterns in trends and developing cohesive big picture.</p> <p>Specialties: Broad knowledge of Business and Financial markets and deep understanding of Insurance Offerings, Software Design, and Information Technology. Experience in starting start-ups in new geography and lines of business. Interacted with Clients at Senior Management positions and Board level Managed Roadmap for Enterprise Software Products Successful record of architecting large enterprise products for Life, Health and General Insurance over 12 years and across 3 versions.</p> <p>Keynote - IOT: Security, Privacy & Trust</p>



Internet of Things - Security by Design

Speakers Profile & Title of the Talk

5.	 Dr. Sudarshan, ABB	<p>Dr. Sudarshan, ABB</p> <p>Dr. Sithu D Sudarsan leads the ABB India Corporate Software Research Team. He has over 25 years of research and development experience with leading national research and development agencies in India and US. His areas of specialization include Information Assurance, Network Security, Cyber Physical Systems, Sensor Networks, Safety Critical Systems, Semantic Mining, and Data Analytics. He is a recipient of several research grants in the area of information security. Before joining ABB in 2012, Dr. Sudarsan was with US Food and Drug Administration as a Visiting Scientist leading their Semantic Data Mining research and development program and received FDA's Outstanding Service Award for his contributions (2012). Dr.Sudarsan has a Ph.D.in Applied Computing from the USA and awarded Outstanding Ph. D. Graduate Award. He has over 90 publications/presentations to his credit. Prior to joining FDA, he was with CEDT, ERDCI, and CRL-BEL.</p> <p>Talk Topic: Code Security for IoT</p>
6.	 Prof. Veni Madhavan, IISc	<p>Prof. Veni Madhavan, IISc</p> <p>C.E.Veni Madhavan obtained his academic degrees, B.E.(Electrical Engineering) from College of Engineering, Madras, in 1969, M.E (Control Systems) from BITS Pilani, in 1971 and PhD (Control theory) from Indian Institute of Science in 1975. He worked in the industry, Air India (1976-1977), National Informatics Center (1977-1982), before joining the Computer Science and Automation department of IISc in 1983. He was a senior professor in the CSA department and retired formally in August 2014. He was the Chairman of CSA department during 1998-2000. He was invited to head the DRDO laboratory, SAG, New Delhi, during 2000-2003.</p> <p>His current research areas of interest are computational linguistics and pragmatic cryptanalysis. He continues to work, in IISc, on three R&D projects in the areas of cryptography and natural language processing and on several technical advisory tasks spanning government policy and academic and research mentorship.</p> <p>Talk Topic: Block chain & Practical Applications on IoT</p>
7.	 Dr. Chester Rebeiro, IITM	<p>Dr. Chester Rebeiro, IITM</p> <p><i>Research Interests</i> hardware security, applied cryptography, side channel analysis , operating system security, Publications: 20 conference publications 7 journal publications on security attacks <i>Patents:</i> Resistance to Cache Timing Attacks on Block Cipher Encryption <i>Books:</i> Timing Channels in Cryptography.</p> <p>Talk Topic 1 : Formal Methods for IoT Security</p>




Internet of Things - Security by Design

Speakers Profile & Title of the Talk


		Talk Topic 2 : PUFs for IoT Security
8.	 <p>Dr. P V Anand Mohan</p>	<p>Dr. P V Anand Mohan Dr. Ananda Mohan has obtained his Ph.D from Indian Institute of Science, Bangalore in 1975. He was with ITI limited since 1973 till 2003 in R&D. Later he was with Electronics corporation (ECIL) of India Limited as Executive director till 2008. After a one year stay at NTRO, at Bangalore, he was back with ECIL till 2014. Since April 2014, he is with C-DAC as Technology Advisor. He is a specialist in Analog filters and Cryptography.</p> <p>Talk Topic: Security for IoT Systems</p>
9.	 <p>Mrs P.R. Lakshmi Eswari, Joint Director at C-DAC Hyderabad</p>	<p>Mrs P.R. Lakshmi Eswari, Joint Director at C-DAC Hyderabad Bio: Mrs P.R.Lakshmi Eswari is currently working as Joint Director (e-Security) at C-DAC Hyderabad. She did her Bachelors' and Masters' degree in Computer Science and Engineering. She has 15 years of experience in Research and teaching at C-DAC as well as NIT Warangal.</p> <p>Research Interests: End Point Security, Device Control, Anti Malware Solutions, Mobile Security and Assurance</p> <p>Talk Topic: Internet of Things-Security By Design</p>
10.	 <p>Ms Suganya, SETS</p>	<p>Ms Suganya, SETS Ms Suganya Annadurai received MTech in VLSI Design from SASTRA University, Thanjavur. She has joined SETS in June 2004, where she is currently working as Scientist D. Her research interests include analysis and design aspects of keyed hash functions and efficient hardware realisation of secure communication systems. Currently she is working in Side Channel Analysis research. She has good number of publications in reputed International conferences to her credit.</p> <p>Talk Topic: Secure Implementation of Lightweight ciphers for IoT</p> <p>Abstract: Lightweight ciphers become indispensable and inevitable in the ubiquitous smart devices. However, the security of ciphers is often subverted by various types of attacks, especially, implementation attacks such as side-channel attacks. These attacks emphasise the necessity of providing efficient countermeasures. This talk presents the secure implementation methodology of lightweight ciphers in hardware.</p>
11.	 <p>Mr. Naveen Gv, Software Engineering Manager, Intel Corporation</p>	<p>Mr. Naveen Gv, Software Engineering Manager, Intel Software Products (HPC,Embedded/IoT & Media) at Intel Corporation</p> <p>Naveen is Software Engineering Manager for Intel Software products, he leads technical team for Intel Software products in India. His team works with internal and external strategic customers providing enabling and optimization support on Intel products for High Performance Computing, Media and Embedded domains. Naveen has worked on Intel Software products and helps customers to optimize their applications to achieve significant performance boost with Intel software tools on multi-core systems, also worked</p>

Internet of Things - Security by Design


Speakers Profile & Title of the Talk

		<p>with several universities across Asia Pacific to implement multi-core programming in academia. He is with Intel Corporation since 2005 and played a key role in establishing Intel Embedded Software eco systems in Asia and other part of world. He has around 16 years of experience in wide range of domains including embedded, aerospace, signal processing, imaging and math applications.</p> <p>Talk Title - A cross-platform tool suite for system and IoT development – Intel® System Studio</p>
12.	 <p style="text-align: center;">Dr. Balaji R, C-DAC</p>	<p>Dr. Balaji R, C-DAC Dr. Balaji Rajendran is working as a Principal Technical Officer in Centre for Development of Advanced Computing (C-DAC), Bangalore. He has more than 16+ years of experience in Research and Development in the domains of Information Security, Community Computing, and Applied AI and has executed various sponsored projects. He is currently leading a national level project for evangelizing the use of Digital Signatures and building a comprehensive knowledge base of Public Key Infrastructure. He is contributing to the development of Internet Standards, and has been jointly leading the Indian Internet Research and Engineering Forum (IIREF). He has also been leading the setup and operations of a Critical Information Infrastructure Protection for a major organization.</p> <p>Talk Topic: PKI for IoT</p>
13.	 <p style="text-align: center;">Mr Rajesh K, C-DAC</p>	<p>Mr Rajesh K, C-DAC Rajesh Kalluri currently working as principal technical officer in the area of software Research & Development both in Government Institutions (C-DAC) & Industry. He has over 10 years of experience. He completed his B.E. from Andhra university and M.S. from BITS. He has worked in the area of design and development of products in SCADA systems, SCADA security, Real Time Systems, Fault Tolerant Systems and Computer networks. He lead the team in setting up SCADA test bed for security analysis and developing security solutions for SCADA Systems. He has published over 10 research papers in journals, national and international conferences. His current interests are SCADA for Energy Grid, security in SCADA systems, smart grid security.</p> <p>Talk Topic: Secure Booting</p>
14.	 <p style="text-align: center;">Mr Mahesh Patil, C-DAC</p>	<p>Mr Mahesh Patil, C-DAC Mahesh U.Patil is designated as Joint Director at C-DAC, Hyderabad. In the last 15 years of his professional career he has developed core competency in Embedded Systems, Embedded & Real Time Operating Systems, Mobile Application Development and Mobile Security. He is also the Technical Co-ordinator of flagship Embedded Systems Course of C-DAC and has trained more than 1200+ Engineering Graduates under this course. He is presently working on</p>

Internet of Things - Security by Design Speakers Profile & Title of the Talk

		<p>hardening of Android Platform and applications of Blockchain Technologies. He is Certified Ethical Hacker (CEH7), SANS Certified-GIAC, Reverse Engineering Malware (GREM), and EC Council Certified Security Analyst (ECSA). He was awarded “Popular Employee” at C-DAC in the year 2016, “Better Performing Employee” at C-DAC in 2012, and “Best Employee” at C-DAC, Hyderabad in 2010.</p> <p>Talk Topics:</p> <ol style="list-style-type: none"> 1) Mobile Device Security: A case study of Android 2) Trusted Execution Environments and Secure Elements
15.		<p>Sponsor Talk: Avnet and Trusted Objects</p> <p>Details about Speaker: Mr. Venkatesh.G Venkatesh. G working with Avnet India Pvt Ltd., as Assistant Field Application Manager who have a decade of experience in Semiconductor Industry. Enthusiast in the field of new technologies like LoRa / LTE , Wireless Communication – BLE, WiFi, GSM/GPRS etc., Having wide experience in both Digital & Analog domain. Agenda of presentation is about Vulnerabilities in IOT without Security & Necessity of Security – Trusted Object</p>
16.	 <p>Ms. Annie Joyce V, C-DAC</p>	<p>Ms. Annie Joyce V, C-DAC</p> <p>Ms. Annie Joyce V is currently working as a Principal Technical Officer in C-DAC. Has a work experience of 16 years involving Designing and Development of Applications in the area of Web Technologies. Has worked with Oracle Database from Version 7 to Oracle 11g at various levels as a DB Designer, DBA, Tutor and Auditor. Apart from working on other RDBMSs, has working knowledge of Data warehousing and ETL tools. Currently working with Internet of Things (IOT) and NoSQL Databases. Her research interests include Data Analytics, Ubiquitous Computing, Semantic Web and Robotics.</p> <p>Talk Topic: Blockchain Technology -A Distributed Secure Database for IoT</p>
17.	 <p>Mr. Vaibhav Pratap Singh,</p>	<p>Mr. Vaibhav Pratap Singh, C-DAC</p> <p>Mr. Vaibhav has a B.Tech from Dehradun Institute of Technology and MS (by Research) from IIT Madras. He is working as a Technical Officer, IoT Group, at C-DAC Bangalore. His projects, over the years, have been majorly in the domain of Ubiquitous computing. His current interests are Embedded System Design, Wireless Sensor Networks, Data Format Design and Software Defined Networking. He was awarded Bayer Young Environmental Envoy, 2013 by Bayer India and United Nations Environment Program (UNEP) for</p>

Internet of Things - Security by Design Speakers Profile & Title of the Talk

	C-DAC	<p>designing a Wireless Sensor Network to do soil CO2 monitoring.</p> <p>Talk Topic : IoT Standards: National and International Efforts</p>
18.	 Ms. Shweta N M, C-DAC	<p>Ms. Shweta N M, C-DAC</p> <p>Shweta N M is working in Internet of Things group of CDAC, Bangalore since 2012. She possesses the BE degree in Electronics and Communications and M. Tech in Digital Communication systems from VTU, Belgaum. She is involved in the design and development of solutions under vivid areas viz. Wireless sensor networks, Ubiquitous Computing, Smart Metering solutions, Low Carbon emission systems for building automation, Early Fire Detection systems for Building safety along with Systems and Solutions for Smart Cities and Smart Airport Terminals. Her areas of interest include embedded system design, embedded debugging, firmware programming, smart grid, security, Data Communications, Networking and Image Processing. She has published various papers in national and international conferences</p> <p>Talk Topic : IoT Solutions for Smart Cities</p> <p>Abstract</p> <p>The social, environmental, financial sustainability for citizen by adopting technology to meet these challenges and create smart cities to maximize resources with an aim of improvised quality of life in urban areas is what smart city is all about. The IoT solutions for smart cities are the key technology enablers.</p>
19.	 Mr. Sumit Mishra C-DAC	<p>Mr. Sumit Mishra C-DAC</p> <p>Mr Sumit Mishra completed bachelors of engineering from JSPM's ICOER ,Pune in 2016 and did DAC course from CDAC-kp Bangalore. He is currently working as Project Associate,IoT group at CDAC R&D Bangalore.He is working in software technologies like Dashboard development,Block Chain and Big data analytics</p> <p>Talk Topic : Demonstration of Proof of Concept (PoC) of Blockchain</p>