

Future Technologies in Data Driven Approaches and Adaption

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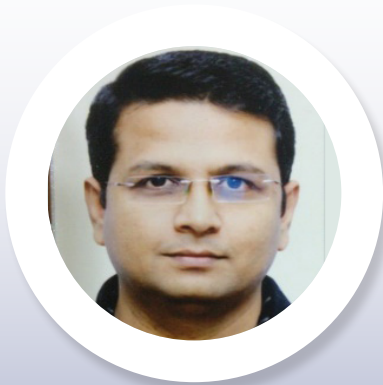
The Generation-next Cyber Security: NICS - the Possible Future

In the post-pandemic era, the advancements in cyber security are undergoing massive shifts both in terms of technology and methods. The attackers are becoming more organized and sophisticated and on the other hand people and organizations are relying on Internet and online platforms more than ever. The defensive methods and the people working to develop better security solutions were never prepared for this sudden growth in cyber-attacks. Artificial Intelligence, Data Science and Quantum Computing treatments are being readily used for Cyber Security to quickly identify, respond and counter the advanced cyber-attacks. Recent research on Nature-inspired Cyber Security (NICS) had paved a way for an entirely new way to develop the robust security solutions. The concept of NICS revolves around development and implementation of an adaptive and more resilient security mechanism which can fundamentally tolerate malicious activities while catering to the incompleteness, uncertainty and fuzziness of information. NICS attempts to build the cyber defense mechanism by applying nature-inspired approaches like camouflaging, deception, disguise and many more. This talk will briefly discuss the role of NICS in the upcoming and future methods of cyber security along with the key decisions to implement intelligent, adaptive and more effective security solutions.

Biography

Dr. Shishir Kumar Shandilya is the Deputy Director of SECURE – Centre of Excellence in Cyber Security and Division Head of Cyber Security and Digital Forensics at VIT Bhopal University. He is working as a Principal Consultant to the Govt. of India for Technology Development and Assessment in Cyber Security. He also holds the position of Executive Director of National Cyber Defense Research Centre, New Delhi. He is a Visiting Researcher at Liverpool Hope University-United Kingdom, a Cambridge University Certified Professional Teacher and Trainer, TEDx Speaker, ACM Distinguished Speaker and a Senior Member of IEEE. He is a NASSCOM Certified Master Trainer for Security Analyst SOC (SSC/Q0909: NVEQF Level 7) and an Academic Advisor to National Cyber Safety and Security Standards, New Delhi. He has received the IDA Teaching Excellence Award for distinctive use of technology in Teaching by Indian Didactics Association, Bangalore (2016) and Young Scientist Award for two consecutive years, 2005 and 2006, by Indian Science Congress and MP Council of Science and Technology. He has seven books published by Springer Nature-Singapore, IGI-USA, River-Denmark and Prentice Hall of India. His recently published book is on Advances in Cyber Security Analytics and Decision Systems by Springer.

shishirkumar.s@vitbhopal.ac.in



Dr. Shishir Kumar Shandilya
Deputy Director – SECURE | Principal
Consultant to the Govt. of India