

SOCIETY FOR ELECTRONIC TRANSACTIONS AND SECURITY [SETS] (An Initiative Under the Office of the PSA to Government of India)

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Strategy and Synergy for Security

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Message

The latest trends in technologies such as IOT, Big Data, Cloud, and Artificial Intelligence has enhanced the efficiency and productivity of various sectors. However, this increased use of digital technology has also led to the growing cyber security concerns at the National, Enterprise and Individual levels. This has created an awareness amongst all levels that "Cyber Security for all" is the need of the hour.

SETS has identified its Research activities in the key verticals namely, Cryptology and computing; Hardware Security; Quantum Security and Network Security. The scientists at SETS are presently engaged in the niche areas of research such as Post Quantum Cryptography; Quantum security (QKD and QRNG); Security and performance analysis of threshold implementation schemes of Side Channel Analysis; Hardware Trojan Detection; Network perimeter security solutions etc.

SETS has enhanced its efforts to bring in coherent synergy to work with R&D labs, academic institutions and industry such as C-DAC, PRL-Ahmedabad, IIT-Kanpur, IIT-Madras, IIT-Bombay, IIT Delhi, IIT Hyderabad, DIAT Pune, ECIL, BEL, SCL, etc. These collaborations resulted in working on multi-institutional R&D projects in the area of Physically Unclonable Functions; Metropolitan Area Quantum Access Network (MAQAN); Unified Blockchain Framework development, ITMA of usable solutions/ products/ IP generation in the areas of cyber security.

SETS has become part of National Supercomputing Mission (NSM) of MeitY, Govt of India and acquired a 100 Tera Flop PARAM SPOORTHI machine built by C-DAC to carry-out compute intensive cyber security solutions development. The efforts of SETS as part of its "Walk-in Cyber Security Education & Research (WiCSER) lab", continue to demonstrate indigenous R&D Solutions developed to the end users. SETS initiated offering webinars in its areas of expertise such as Quantum Security, Post Quantum Cryptography, IOT Security, AI for cyber security, Ransomware attack mitigation, hardware security etc.

SETS, being the unique R&D lab in cyber security, strives to learn and grow in its capabilities, to develop indigenous solutions/ products and taking part in the Nation's march towards self-reliance (Atma nirbhar Bharat) and to be a force to reckon with, in the Information security domain.

(N. Sarat Chandra Babu)

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