



Strategy and Synergy for Security

## SOCIETY FOR ELECTRONIC TRANSACTIONS AND SECURITY [SETS]

S.No.	Title of Problem Statement	Engaged Scientist(s)
1.	Artificial Intelligence (AI) assisted Side Channel Analysis (SCA)	Ms. Suganya
2.	Boolean function and their measurement for the randomness	Dr. Shashi Kant
3.	Development of a Time-to-Digital Converter (TDC) on FPGA with 50ps Resolution	Ms. Foram Singala
4.	Design of secure and reliable communication in Unmanned Aircraft Systems (UAS)	Mr. Hariprasad
5.	Prototype Development of PQC-based Hardware Crypto Tokens (Dongle)	Mr. Santhosh
6.	Root cause analysis using machine learning (ML) techniques for a QKD field deployable system	Dr. Natarajan
7.	XAI (Explainable Artificial Intelligence) for Side Channel Analysis (SCA)	Ms. Easwaridevi
8.	Feasibility study on implementing PQC algorithms on Noise Protocol Framework	Mr. Santhosh
9.	Integrated generative AI for threat hunting process	Mr. Mithran
10.	AI assisted Malware Risk Assessment Tool	Dr. Reshmi & Mr. Mithran
11.	Post Quantum Signature Schemes for Blockchain	Dr. Reshmi
12.	Classification of Phishing URLs on ML and adaptive techniques	Mr. Krishna
13.	5G Security Testbed and experiments	Dr. N. Subramanian
14.	Anomaly detection techniques for cyber security	Dr. N. Subramanian