

Sécurité des Systèmes d'Information

Exam Questions - Presentations

December 2019

October 16th : Working in a CSIRT (Computer Security Incident Response Team)

- In a Computer Security Incident Response Team, what is a Red team and what is their job ?

October 23rd : True Random Generation with metastability in FGPA

- What is FGPA and how do we generate metastabilities with it ?

October 23rd : Password Managers

- Why would you want to use a password manager ?

October 23rd : Bitcoin

- Explain how the Bitcoin works with the blockchain.

October 30th : Car Hacking

- How does the ECU (Electronic Control Unit) communicates in a car, and how could you attack this system ?

October 30th : Biometric Authentication (Visual and Facial)

- Describe briefly how biometric authentication works with iris recognition. What are the dangers of biometric authentication ?

October 30th : Watermarking

- Explain watermarking and robustness.

November 6th : Bypassing malware detector using GAN

- What are the main components of GAN (Generative Adversarial Networks) ?

November 6th : Buffer Overflow Attacks

- Explain the buffer overflow attack. Give one method of protection against it.

November 6th : SQL Injection

- Explain what is an SQL Injection attack.

November 13th : Biometric Encryption (Fingerprints)

- Describe briefly how biometric encryption works with fingerprint recognition. What are the dangers of biometric encryption ?

November 13th : Online Voting

- Give the important properties wanted for an online voting system.