

Exercise Sensor Networks

Lecture 10: Security in sensor networks

Exercise 10.1: RSA public key encryption

Prove to multiplicative homomorphic property of RSA

Exercise 10.2: Domingo-Ferrer encryption

a) Prove the probabilistic behavior of the Domingo-Ferrer encryption in contrast to the deterministic behavior of RSA using the following values:

b) Prove the additive homomorphic property of the Domingo-Ferrer encryption