

CRI Seminar

Title: Security of Computer Systems

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Short Bio:

Sara B. is a graduate of the University of Science and Technology Houari Boumediene (USTHB) in Algeria (2012), and also holds the Master's degree M2 from this university (2014). Her domain of interest is Security of Computer Systems.

Her Master's project was on the development of an efficient coding and encryption solution for the transmission of data in wireless multimedia sensor networks.

She is currently a teaching assistant at the French University in Egypt. She participates in courses delivered at TIC (Technology of Informatics and Communications) department (Faculty of Engineering) as well as at the faculty of Management and Information Systems.

Her research interests include security, wireless multimedia sensor networks.

She is intending to pursue her PhD studies in France.

Resume:

Before the extensive use of computer, the concept of information security was provided only by physical means (i.e. folders closed by a padlock) or administrative act (i.e. systematic examination of candidates during their recruitment),...etc. Nowadays with the fact that the computer environment is controlling almost all aspects of life, and with the vast expansion of using Internet and networks, the computer science has made information very flexible. This has made it much easier for all works to be performed in both individual and organizational fields.

The fact of computers controlling organizational work environment has initiated the need for integrating the computer environment with work flow of transactions environment. As this integration became stronger, it needed to be secured. The failure of initiating a strong bond between the two environments governed by a strong security system may lead to a total collapse of the work environment. The trend nowadays for all firms is to direct their full attention to building a strong computer environment, i.e. an environment that is protected by a strong security system.

Also on the individual level, this is important with almost every person who has confidential information that he/she uses in daily life such as bank accounts' details, e-banking, personal codes, ...etc.

Ensuring the security of computer systems information as well as personal confidential data corresponds to firstly defining and understanding basic terms such as threats, risks, and vulnerability of computer systems. Then, follows the fulfillment of certain 'protection measures to achieve it.