Computer Systems and Security (Outline)

Outline

Computer Systems and Security

**Research Objective**

* **To investigate the role of technology in computer systems and security**

In computer systems and security, technology helps in implementing measures designed to securely safeguard and protect information (Forte & Power, 2007). More specifically, some of the information to be protected include voice conversations, motion pictures, personal and business data, still images, and multimedia presentations.

* **To explore the advantages of computer security**

One of the main advantages of computer security is the protection of information (Hughes, 2002). In addition to preventing malware and viruses, security is also important for the overall health of the computer.

* **To integrate computer security into existing programs of computer science**

Computer security's integration into existing programs is a complicated and urgent task (Cushion, 2006). Educators of computer science bear the responsibility of cultivating a new generation of graduates who understands computer security.

**Questions**

1. How can students be prepared to make them security literate?
2. Should alternative mechanisms of Web-based delivery, corporate training, continuing education courses, and distance education of curriculum be used?
3. How would a member of the faculty become aware of security given the fast computer technology's advancement?
4. Is there any need for integrating computer security throughout the curriculum?
5. Besides the computer security’s technical solutions, how can non-technical aspects such as political, organizational, social, legal, and economic issues be covered by the curriculum?

**References**

Cushion, S. (2006). What does CALL have to offer computer science and what does computer science have to offer CALL? *Computer Assisted Language Learning*, *19*(2-3), 193-242. https://doi.org/10.1080/09588220600821537

Forte, D., & Power, R. (2007). Compliance: with what, and to what end? *Computer Fraud & Security*, *2007*(3), 18-20. https://doi.org/10.1016/s1361-3723 (07)70037-4

Hughes, G. (2002). Gender issues in computer-supported learning: what we can learn from the gender; science and technology literature. *Research in Learning Technology*, *10*(2). https://doi.org/10.3402/rlt.v10i2.11403