

**King Fahd University of Petroleum & Minerals
College of Computer Sciences and Engineering**

**CSE 550 – Computer Network Design (3-0-3)
Spring 2008 (Term 072)**

Projects Descriptions

March 1st, 2008

The following are the proposed projects:

- 1) **Application-level Internet Access Denial (AIAD):** Investigate and study the Internet unavailability due to the malicious act of denial of Internet access by international ISPs occurring at the application level, e.g., DNS, and propose effective counter measures to increase the resilience of Internet services.
- 2) **Routing-level Internet Access Denial (RIAD):** Investigate and study the Internet unavailability due to the malicious act of denial of Internet access by international ISPs occurring at the routing level, and propose effective counter measures to increase the resilience of Internet services.
- 3) **Physical-level Internet Access Denial (PIAD):** Investigate and study the Internet unavailability due to the malicious act of denial of Internet access by international ISPs occurring at the physical infrastructure level, and propose effective counter measures to increase the resilience of Internet services.
- 4) **Honeynet-KSA:** Investigate, study, and design a Honeynet for the Kingdom. A honeynet is a network set up with intentional vulnerabilities for the purpose of inviting attacks. Therefore, an attacker's activities and methods can be studied, and the information collected can be used to increase network security. A honeynet contains one or more honeypots.