Institute for Integrated and Intelligent Systems (IIIS) is pleased to present the SEMINAR on “Model Based Testing of Security Properties” by Professor Paddy Krishnan, Computer Science, Bond University.

**Time** 10.00am - 11.00am  
**Date** Friday, 3rd April 2009  
**Venue** G23 1.21 Gold Coast campus Griffith University.

**Abstract:** In this seminar we present a framework based on model based testing for security vulnerabilities testing. Security vulnerabilities are not only related to security functionalities at the application level but are sensitive to implementation details. Thus traditional model based approaches which remove implementation details are by themselves inadequate for testing security vulnerabilities. We demonstrate a framework that retains the advantages of model based testing that exposes only the necessary details relevant for vulnerability testing. Our framework has three sub-models: a model or specification of the key aspects of the application, a model about the relevant aspects of the implementation and a model of the attacker. These three models are then combined to generate test cases. The same approach can also be used to test if a system meets a privacy policy.