

# **Security Properties of Software Systems**

Com S 610, Section HR, Credit 1/3, Fall 2006

## **Description:**

The thefts and losses that current software systems have caused in the recent past are perhaps a premonition of the extent of damage that current software systems infused into the critical infrastructure of the society can cause in future. It is a rude but timely awakening, and it is incumbent upon us as computer scientists to mitigate these risks to the extent possible. The research in security of software systems is making headway in several simultaneous directions. In this seminar, we will collectively study, understand, and critically evaluate these advances. As teams, we will also survey areas of mutual interest but within the broader scope of this topic. Last but not the least, this seminar will provide a collegial venue for students to improve upon their writing and communication skills through constructive feedback of peers.

## **Logistics:**

Facilitator: Hridesh Rajan

Facilitator's E-mail: [hridesh@cs.iastate.edu](mailto:hridesh@cs.iastate.edu)

Meeting time: **Wednesday 4:10 PM - 5:30 PM**

Meeting Venue: 217 Atanasoff Hall

Seminar website: <http://www.cs.iastate.edu/~hridesh/teaching/610/06/02/index.shtml>

The seminar will meet once a week for one hour and twenty minutes at a time. Students will be expected to participate in discussions, to read papers. If you register for one credit, you will be expected to contribute by presenting papers and leading discussions on it. If you register for three credits, in addition to presenting papers and leading discussions you will also be expected to do a team project.

If you plan on attending, please send your name and class schedule by e-mail to me ([hridesh@cs.iastate.edu](mailto:hridesh@cs.iastate.edu)). The initial meeting time is scheduled to be Wednesday 4:10 - 5:30 PM, but if it is inconvenient to a significant number of interested students, I will reschedule a meeting time that is convenient for as many as possible.

## **Survey Requirements:**

Students participating in the ComS 610 - HR are required to write a survey paper on the topic of their choosing within the scope of the seminar. A survey paper as defined by ACM Computing Surveys is as follows:

*Survey paper - A paper that summarizes and organizes recent research results in a novel way that integrates and add understanding to work in the field. A survey article assumes a general knowledge of the area; it emphasizes the classification of the existing literature, developing a perspective on the area, and evaluating trends.*

More information about the survey paper such as formatting requirements, content organization, etc are described the ACM computing surveys information for authors. The guidelines published on this web page will be used to evaluate your surveys.

<http://www.acm.org/pubs/surveys/Authors.html>