For decades, Computer and Information security studies have been driven by concepts such as Confidentiality, Integrity, and Authentication. These concepts and the resulting body of knowledge are necessary, but not sufficient, for the emerging discipline of Cyber Security, which would need a new body of knowledge and possibly a new foundation. In this talk, I will present some preliminary results in this direction. The results are centered on the novel concept we call Cyber Security Dynamics, which has a great potential to become one of the cornerstone concepts that may drive the understanding and study of Cyber Security. I will also discuss some challenging open problems.

Please refer to www.cs.utsa.edu/~shxu for more information about his research.

This is a joint seminar with the Department of Computer and Information Science and the Department of Computer and Information Technology.

DATE:     Friday, October 12, 2012
TIME:     11:00 am
ROOM:     SL061