CTI Room 436A, 4:30 p.m.
Tuesday, April 27th 2004
Refreshments will be served

About the Event

In today's volatile business environment, it is critical for software systems to adapt to changing organizational needs. Unfortunately simple changes in requirements can adversely impact a software system, with effects ranging from minor failures in functionality to large scale catastrophes resulting in loss of life or costing an organization millions of dollars in lost revenues. In this talk Dr. Huang will explore several such examples and discuss how a more rigorous approach to the requirements engineering process could alleviate these problems.

Dr. Huang will then introduce her own work on Requirements Traceability which involves the construction of a rigorous and extensive traceability infrastructure, designed to manage change and validate critical requirements more effectively than traditional methods. These new techniques include Event Based Traceability for predicting the impact of change upon emergent system properties such as performance, extensibility, and reusability, and her more recent research in conjunction with Dr. Settimi that utilizes information retrieval and probabilistic methods to dynamically generate traceability links.

Dr. Huang's work on these topics was previously published in IEEE Transactions on Software Engineering, Springer-Verlag's Requirements Engineering Journal, and was awarded a best paper award at the IEEE International Requirements Engineering Conference.

For more information regarding Upsilon Pi Epsilon Honors Computer Society, e-mail us at deltaupe@depaul.edu or visit us at www.clinton.cs.depaul.edu/upe