



## UH INFORMS Lecture Series

SPRING 2008

*presents*

**Dr. W. Art Chaovalitwongse**

*Rutgers University*

**Title: Optimization in Diagnosis and Prognosis of  
Brain Disorders**

**10:00 am -11:00 am      Friday, March 28, 2008**

**102 D, Eng. Building D2**

### **ABSTRACT**

During the past few years, today's technological advances have made it possible to capture simultaneous responses from large enough data to empirically test the theories of human biological functions. To better understand the biology from this new flood of information, there has been an explosion of interest in rapidly emerging interdisciplinary research area in both medical and engineering domains. The main objective of this talk is to present optimization models for data mining in time series data. Application of these models in neuroscience research is a case point in this study. Specifically, I will also discuss our attempt to apply these approaches to seizure prediction and abnormal brain activity classification problems as well as other several important problems arising in neuroscience.

Details can be found at <http://www.uh.edu/~informs/events/events.htm>.

If you have any questions regarding this event, please contact Dr. Gino Lim at 713-743-4194 or at [ginolim@uh.edu](mailto:ginolim@uh.edu).