Electrical & Computer Engineering Graduate Seminar

SPEAKER: Dr. Hans J. Johnson
Associate Professor, Psychiatry

“Accelerating Brain Research Through Automated Software Testing?”

Thursday March 13, 2008 3:30-4:20 PM Room 3315 SC

Abstract:

Advancements in Neuroimaging tools and high resolution image acquisition devices lead to increasingly complex methods for analyzing brain structure and function. Additionally, the availability of geographically distributed high performance computational resources provides an opportunity to analyze neuroimaging data with many different approaches simultaneously. Developing the software and analysis protocols used to analyze imaging data can take many years, and it is important that the integrity of the analysis methods is preserved over time. This presentation describes how software testing tools are employed to accelerate brain research through application of automated software testing.

Bio:

HANS J. JOHNSON received a B.S. degree in Biomedical Engineering from The University of Iowa, Iowa City in 1997. He received M.S. and Ph.D. degrees in Electrical and Computer Engineering from The University of Iowa, Iowa City in 2000 and 2002, respectively. Dr. Johnson joined the Psychiatry Iowa Neuroimaging Consortia at The University of Iowa where he is currently a lead developer in their image processing laboratory. His primary research interests include neuroinformatics, software testing, image registration, 3D visualization, and the synthesis of average anatomical shape models.

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