College of Engineering Research Day 2011
and Student Poster Competition
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Guest Speaker is Dr. Kenneth Ford
Founder and CEO of the Institute of Human & Machine Cognition.

Abstract: Human Centered Computing

The emerging concept of human-centered (HCC) computing represents a significant shift in thinking about intelligent machines and, indeed, about information technology in general. Human-centered computing embodies a "systems view," in which human thought and action and technological systems are seen as inextricably linked and equally important aspects of analysis, design, and evaluation. From an AI perspective, the HCC framework is focused less on stand-alone exemplars of mechanical cognitive talent, and is concerned more with computational systems designed to amplify human cognitive and perceptual abilities. These systems fit the human and machine components together in ways that exploit their respective strengths and mitigate their respective weaknesses. My talk will provide a survey of selected research activities at the Institute for Human & Machine Cognition (IHMC) developed under this framework. Researchers at IHMC pioneer ground-breaking technologies aimed at leveraging and extending human capabilities. Human Centered Computing research requires a broader interdisciplinary range than is typically found in one organization, and IHMC staff includes computer scientists, cognitive psychologists, neuroscientists, physicians, philosophers, engineers and social scientists of various stripes, as well as some people who resist all attempts to classify them.

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