

## **Recent Advances in Robotics, Automation and Sensing**

Recent robotics, automation and sensing endeavors are making it into the mainstream. This talk will highlight several recent research and development projects with in the areas of designing hybrid controllers for robotics and automation applications, service robots, prototyping and synthesis of controllers, simulators, and monitors for manipulators and autonomous mobile platforms, algorithms for uncertainty computation from sense data, and web-based prototyping, control synthesis, and simulation of robotic agents. Several innovations and breakthroughs at the Robotics, Intelligent Sensing and Control (RISC) laboratory at the University of Bridgeport will be detailed; and the ongoing emphasis on developing and implementing theoretical and experimental tools to aid performing adaptive goal-directed robotic sensing for modeling, observing and controlling interactive agents and electromechanical systems in unstructured environments will be discussed.