Motion Measurement and Analysis during Rehabilitation

October 30, 2015 12 noon – 1:00 p.m.

TRI – University
Centre, Lecture
Theatre (basement)

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DR KULIĆ'S RESEARCH INTERESTS
INCLUDE HUMAN MOTION
UNDERSTANDING, HUMAN-ROBOT
INTERACTION AND HUMANOID
ROBOTICS.

Dr Kulić will describe a system for on-line measurement and analysis of human movement that can be used to provide feedback to patients and clinicians during the performance of rehabilitation exercises. The system consists of wearable inertial measurement unit (IMU) sensors attached to the patient's limbs.

She will present results of user studies analyzing the system capabilities for gait measurement of stroke patients undergoing gait rehabilitation and demonstrating the significant benefits of feedback with patients undergoing rehabilitation following hip and knee replacement surgery.

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