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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