

Move on Up School Experience

Sports and Rehabilitation

SCHOOL DEMONSTRATIONS Tour 1:- 28th July 2011, circa 9:30 am til 3pm

Interactive training aids, including those using electronic textiles and interactive auditory biofeedback, offer new scope for performance monitoring and training in diverse training and competition environments. The demonstrations and talks aim to inspire and inform students about technology and design

Football: Interactive Kicking and Injury Prevention.

A pair of "intelligent leggings", a pair of leggings commonly worn in sports training with textile strain sensors across the knee, is being used as part of an interactive training system for lower limb skill development. For example, a preferred characteristic of Australian football kicking technique involves significant knee flexion as part of the kicking action. Dr Elissa Phillips, a postdoctoral fellow at Victoria University will demonstrate and discuss various aspects of this new technology and how to design training sessions to improve technique and learning.



Netball: Interactive Throwing and Diagnosis.

A recent study with twenty-two secondary school children having limited to no previous netball or basketball free throw shooting experience, has shown interactive biofeedback can provide a learning advantage. An "interactive sleeve" placed on the shooting arm triggers drum beats to play if the wearer moves their elbow and wrist in a certain way during throwing. Dr Ian Blanchonette, a Research Scientist at CSIRO, will demonstrate and discuss the effect on throwing technique and learning, and its potential for conditions like Parkinson's disease and epilepsy.

Rowing: Foot Pressure and Rehabilitation

Wireless pressure monitoring devices represent a tool that can help further understand and characterise performance in various sports and health activities. Mr Michael Mestrovic, Research Engineer at CSIRO, will demonstrate and discuss how to design wearable devices for monitoring physiological performance.



Ford Design



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