

Real-time fitness monitor. A project proposal

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March 2, 2013

Abstract

IMPACT is a multidisciplinary project in which students of computer science (more precisely: software engineering), material sciences, mechatronics and embedded system design come together to create Thai-boxing pads with builtin impact sensors and wireless connection to a base station.

In this project, we will implement a multi-sensor tracking and analysis tool for a physical workout routine specific to Thai/kick-boxing or similar contact sports to track and display performance and fitness level of a practitioner over a single and over multiple sessions. It will be used to record and correlate the inputs from impact sensors and technique recognition and track improvements of practitioners over time.