

Download Functional Human Movement : Measurement And Analysis

The multidisciplinary research of the Laboratory of Movement Analysis and Measurement aims to transfer bioengineering findings into clinical applications. The essential aim of human motion analysis is to understand the mechanical function of the musculoskeletal system during the execution of a motor task. The group is led by three Professors, based in the schools of Health Sciences (Granat and Kenney) and Computing, Science and Engineering (Howard) and group members have a broad range of expertise, spanning biomedical engineering, medical instrumentation, biomechanics, gait analysis, activity monitoring, rehabilitation medicine, geriatrics ...Department of Orthopedics ... CGMA utilizes state-of-the-art instrumentation to characterize the mechanics of human movement, the timing and intensity of muscle activity, and the forces generated by foot/floor contact.