

## ABSTRACT:

A Real-Time, Inexpensive Gait Analysis System that cost less than RM3,000 (~USD982) is proposed in this paper. The proposed system consists of subsystems such as wireless wearable accelerometer system, Custom-made force platform, data acquisition system with real-time computer data logging capability. Kinematics and kinetics parameters of human locomotion were collected and analysed by the system. The results collected were compared against published normative human gait data. Data collection was performed on 20 healthy test subjects without any reported gait-deficiency.