National Cheng Kung University – Project NCKU3

Title: Improvement of Physical Activity and Fitness in Children with Developmental Coordination Disorder

Supervisors: Rong-Ju Cherng

Keywords: Rehabilitation, Physical therapy

Project type: Clinical study

Duration: 4-6 weeks

Project Description:
Children with developmental coordination (DCD) are characterized with motor difficulties which cannot be explained by any medical reasons. Motor difficulties may limit the children’s participation in physical activities, resulting in decreases of physical fitness and health related problems, such as overweight and obesity.

Traditional physical exercises to improve physical activity are deemed to be boring by many children. Many newly technology with interesting program developed to replace the traditional therapy. Virtual reality (VR) is a promising alternative therapy for children. The purpose of the project is aimed to examine the physical activity and fitness in children with DCD and to improve the physical fitness through a self-designed (laboratory) designed VR programs.

Requirements: Child development, Exercise physiology and Fitness concepts

Remarks: Interested in interaction with preschoolers and primary school students