穿戴式手掌復建器：任務導向治療之抓取訓練

A Wearable Rehabilitation Robotic Hand for Task-oriented Training in grasping task

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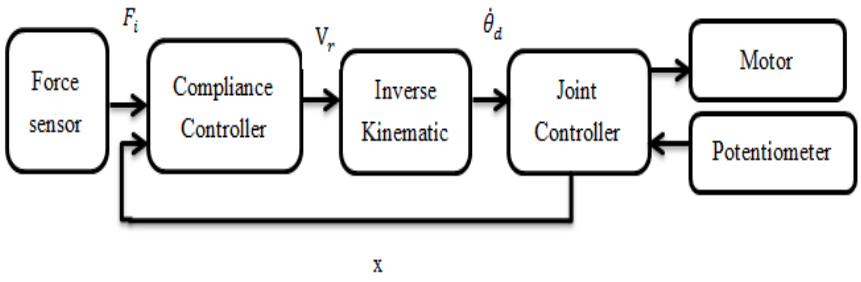
Stroke is the second leading cause of death and a leading cause of adult disability worldwide. ThE stroke survivors require post stroke rehabilitation. However, the increasing number of stroke survivors causes the therapists experience a heavy workload and provide poor quality rehabilitation. This study aims to develop a wearable hand rehabilitation robotic hand to assist the hemiplegic patients to achieve task oriented training specifically for grasping object. In order to ensure a safety training procedure, the interaction between human and robot is necessary. We design a lightly hand exoskeleton structure and using the impedance control to achieve the safety training procedure.



Control System Architecture