

# A dual-loop control system of grasping force for prosthetic hands

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**Abstract.** Despite the rapid developments of prosthetic hands technologies in recent years, there still exists a huge gap between prosthetic hands and human hands in flexibility. The limitation of sensors attached to the prosthetic hand is one of the causes, and another reason is that the materials, weight, and stiffness of the object gripped by a prosthetic hand are unknown. Additionally, the external disturbances in prosthetic hands are not certain. The factors mentioned above lead to difficulties in controlling grasping force of prosthetic hands, and that affects the quality of prosthetic hands applications. Therefore, it is important to design a stable and reliable system to control grasping force. This paper presents a dual-loop control system of grasping force for prosthetic hands, and we carried out some relative experiments based on a single degrees of freedom prosthetic hand. The experiment results show that the proposed control system is effective.

**Keywords:** dual-loop control system; prosthetic hands; reflex control; grasping force; fuzzy controller.

## 1 Introduction

Hands are an essential part of a human body, but some people may lose their hands due to some incidents, such as diseases, work injuries, traffic incidents, etc. Those people face big challenges in their daily life, and someone even has serious mental illnesses. To solve these problems, the prosthetic hand has been created. There are different types of prosthetic hands. According to the degrees of freedom (DOF), prosthetic hands are classified into single DOF hands and multi-DOF hands; according to the ways of actuation, prosthetic hands can be classified into hydraulic-drive hands, electric-drive hands, etc. During its evolution, the prosthetic hand has experienced changes from big-sized, two-finger to small-sized, multi-fingered. Meanwhile, the prosthetic hand turns precisely-grasped and becomes more functional compared with its initial functions like simple grasp. Generally speaking, tendencies of prosthetic hands' developments are humanoid, multi-functional and highly integrated. The ultimate goal of the invention of prosthetic hands is to offer people who lose hands a normal life.

The appearance of the prosthetic hand brings hope to the disabled, but some problems arose which restrict its further developments. For getting a better and functional prosthetic hand, designing a stable and reliable control system is a key point. As demonstrated in [1-3], methods for controlling prosthetic

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