

Title

Two cases of flexible robots: parallel robots with compliant joints and robotic flexible needle insertion

Abstract

Flexible robot caves out a research wave in robotics field in recent years. With outstanding performance, more and more applications of flexible robots have been developed. This talk is to introduce two cases of flexible robots research in my lab. One is the parallel robot with compliant joints, which is mainly applied in the field of high precision positioning. The other one is the robotic flexible needle insertion system, which is focused on the tumor diagnosis and therapy in the future. From those two cases, it can be seen that flexible robots can make the impossible possible.