

Revolution of Bionic Prosthetic Arm and Its Crucial Challenge towards Improving Quantity of Life: A Review

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Abstract:

Accidents and fatalities cause physical disabilities such as a loss of an arm. Patients suffering this disability experience a lesser quality of life (QOL) due to loss of interaction with their surroundings. These patients often opt for prosthetics limb-replacements such as prosthetic hands or prosthetics arms to improve their QOL. However, patients often abandon these prosthetics after a period of time due to various factors such as time concern, and cost. Thus, this paper aims to review existing bionic prosthetic arm in terms of mechanical design, operating system and applied sensors to guide future studies in developing better prosthetics that will improve patient's QOL.

Keywords: Quality of life; Bionic prosthetics arm; Applied sensors; Humanoid.

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