

Building a human-robot interaction program using hand gestures.

Hoang Thi Thao

Abstract: In practice, the need to improve interaction between humans and robotic systems is increasingly high. This topic focuses on building an interaction program through hand gestures with the aim of creating a more effective and natural communication experience for users. By combining theoretical research on gestures, designing a sensor data collection system, and developing image processing algorithms, we aim to solve the problem of building a robot-human interaction system based on hand gestures. The results of this topic not only provide the research community with a practical solution but also contribute to the development of human-machine interaction technology, improving quality of life and work efficiency in many application fields.

Keywords: human-robot, hand gesture, interaction system