A comprehensive survey on bimanual robotic manipulation

Junjia Liu
1 *Mechanical and Automation Engineering*, *Chinese University of Hong Kong*

***Abstract*—**

I. Introduction

Robotics research has been developing in the direction of more intelligence and higher degrees of freedom. For decades, research on dual-arm robot with similar structures to humans has gradually received attention. It is expected to be able to complete human tasks in more unstructured scenarios. [1]

This paper aims to summarize the recent research progress of bimanual robotic manipulation from the perspective of methodology and application, with special attention given to work using learning methods.

Acknowledgment

References

[1] C. Smith, Y. Karayiannidis, L. Nalpantidis, X. Gratal, P. Qi, D. V. Dimarogonas, and D. Kragic, "Dual arm manipulation—a survey," *Robotics and Autonomous systems*, vol. 60, no. 10, pp. 1340–1353, 2012.