

Plenary Talk III

Machine Vision for Various Manipulation Tasks

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ABSTRACT

Bin-picking, re-grasping, pick-and-place, kitting, etc. There are many manipulation tasks in the fields of automation of factory, warehouse and so on. The main problem of the automation is that the target objects (items/parts) have various shapes, weights and surface materials. In my talk, I will show latest machine vision systems and algorithms against the problem.

BIOGRAPHY

Yukiyasu Domae is principal researcher of Mitsubishi Electric Corporation, and researcher of AIST, Japan. He is received the Ph.D. from the Hokkaido University in information science in 2012. He awarded R&D100 award (2014), IPSJ Kiyasu special industrial achievement award (2014), best paper awards of JRM (2012) and RSJ (2016), Japanese robot award (2012) and Good Design Best 100 (2016) with the contribution of machine vision research and development.