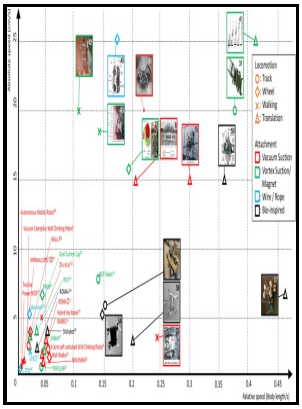
Tractive mechanisms for wall climbing robots

University of Portsmouth, Dept. of Mechanical and Manufacturing Engineering - Support and Positioning Mechanism of a Detection Robot inside a Spherical Tank



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-Tractive mechanisms for wall climbing robots
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Support and Positioning Mechanism of a Detection Robot inside a Spherical Tank

Shi and Li took that concept and built a robot that could climb even rough, unfinished exterior walls of buildings. The robot positioning method based on the support and positioning mechanism can effectively locate the robot inside a spherical tank. The simple and effective structure of Tbot enables it to be steerable and to transition from horizontal to vertical surfaces rapidly and stably.

A Wheeled Wall

Zhu J, Sun D, Tso S-K 2003 Application of a Service Climbing Robot with Motion Planning and Visual Sensing. Cleaning dirty spaces is a very important task for human beings to maintain their quality of life. Hence harvesting fruits and nuts and maintaining them becomes difficult.

Support and Positioning Mechanism of a Detection Robot inside a Spherical Tank

Bach FW, Rachkov M, Seevers J et al 1995 High tractive power wall-climbing robot.

Design of adhesive surface for track

The adsorption capacity is the basic ability of wall-climbing robots.

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