

Space Robotics Activities in CNSA: Achievements and the Future

*Yulong Tian

Contact Author : Yulong Tian

Affiliation : China National Space Administration

Address : 8A Fucheng Street, Haidian district,
Beijing, P.R.China

Email : master@cnsa.gov.cn

Phone : +86-010-68205223

Fax(optional) :

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Extended Abstract

Space robotics is a very important part in the research and application activities of China national space administration(CNSA). Firstly, some achievements with respect to space robotics are reviewed, e.g. spacecraft on-orbit maintaining, lunar exploration etc., then some on-going projects will be introduced, afterwards, as part of China national strategy, the development route in incoming 15 years will be introduced.

Major achievements include the ‘Yutu’ lunar rover in the ‘Change’ III lunar exploration system, and the spacecraft on-orbit maintaining experiments etc.

Currently, there are some on-going projects, e.g. the on-orbit maintaining system of the ‘Tiangong’ II space station, the manipulator of Chinese space station, Chang’e V lunar rover and Mars rover etc.

Oriented to the requirements to develop space missions in near future, the development route of the space robots are planned.