

2018 can sat Koshien Roversat overview

Theme

Research and development of FPV type Roversat

"First person View Operation" (remote control by first-person view)

Motivation

I was thinking that I could use a system like FPS games other than "remote control of the robot from the first-person perspective" I came to the mission that I can operate intuitively if the first-person view, even if there is no real-time operation and can not be comparable to the work of human behavior I thought.

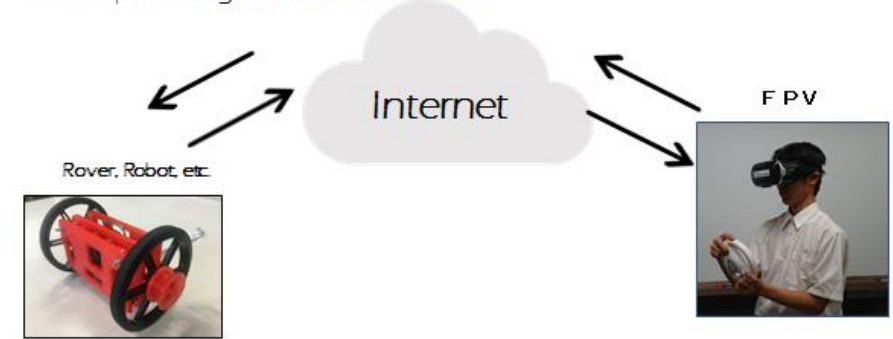
Background

What motivated us to study Roversat was to collaborate with Osaka Prefecture University's Small Spacecraft System Research Center (SSSRC), to collaborate with university students at university classes and space events and to Roversat It was because there were many opportunities to touch.

Overview

The conceptual diagram of the remote control by the first-person view is as follows.

- Conceptual diagram of remote control



Those who are remotely operated are able to operate the image information sent from the camera which is installed in the rover and the robot by the Internet, and the existing operation tool like the Wii Remote control intuition by looking at **VR goggles**.

Structure

Name Ibarakidouji- [v]
 Diameter 90mm
 Height 162mm
 Weight 279g



Devised points

- Using a Wi-Fi camera to send footage from a first-person perspective
- Equipped with Bluetooth for piloting
- Create frames with 3d printers designed by ourselves