Press Information



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January 2011

The Research and Development Project of Office Robots is officially adopted by METI (Ministry of Economy, Trade and Industry)

"Development of office robot", a project by FORUM8, has been officially adopted as the research project of METI (Ministry of Economy, Trade and Industry) according to "The Law of Advanced development for small-and-medium-sized enterprise" on December 10, 2010. We are proceeding with the developmental planning of the office robots using our virtual reality (VR) software "UC-win/Road" and its modelling technology utilising 3D point-cloud data.

This is the outline of the Development of UC-win/Road Office Robot project.

1. Development of the basic module

FORUM8 is developing the following 4 modules that control the office service robot and the main controller that manages these 4 modules.

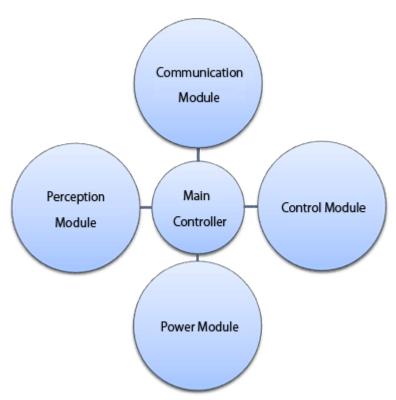
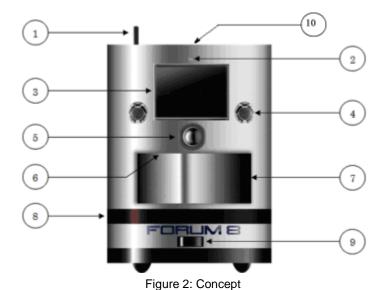


Figure 1: Concept

2. Development concept for the main body of office robot

- 1. Wireless Network (Tele-operation, Telepresence)
- 2. Microphone (Telepresence)
- 3. LCD screen (Telepresence)
- 4. Stereo speaker (Telepresence)
- 5. Wireless Internet Camera (Tele-operation, Telepresence)
- 6. Temperature, gas sensor (Hazard sensor for home robot)
- 7. Cavity for holding documents and small items
- 8. Infrared sensor (Obstacle avoidance infra-red pass filter can only be seen from outside.)
- 9. Laser range finder (Obstacle avoidance)
- 10. Position measurement camera



3. Development of robot operation system

- -Task assignment function
- -Path judgement
- -Recognition
- -Advanced control function
- -Visual feedback process
- -Manual control function(Figure 3)
- -Random wandering function
- -Security function

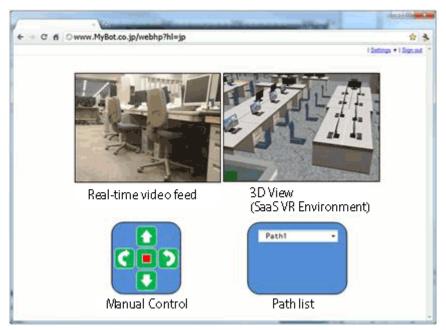


Figure 3:Controlling interface (Sketch)

4. Implementation of the actual test and the consideration of maintenance method

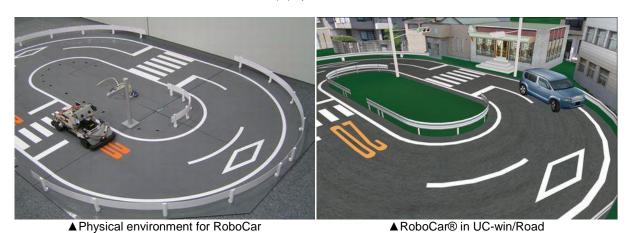
5. Marketing and service of the system when commercialised

Associated products:

UC-win/Road for SaaS
Point cloud modeling
UC-win/Road for RoboCar(R)



▲ RoboCar(R) operational in an office



FORUM 8