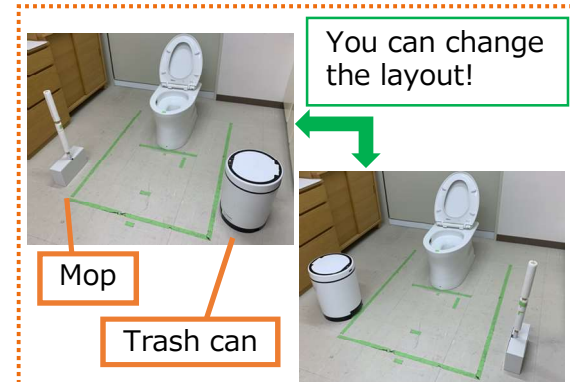# Suzuki Takuo Laboratory (Japan)

Service Robotics Category
サービスカテゴリー

Development point

We have developed a restroom cleaning system that can be used for a general home as well as a convenience store. This system has a mobile manipulator, and the robot can use a common cleaning tool to wipe the toilet bowl. This system works even if the position of the trash can and mop changes because of the object recognition technology.

You can change the layout!

Mop

Trash can

Introduction of your team

[Inspiration, motivation to form a team]
Suzuki Takuo Laboratory at Aichi Prefectural University researches living state estimation and have been developing human support robots to assist nutrition management, medication management, etc. This time, as a kind of human support, we have challenged to develop a restroom cleaning system based on point cloud processing technology.
[Future outlook]
We're going to improve the object recognition technique to wipe other objects that have curved shapes.

Role	Name	Affiliation/Title	Specialty, Field of study
Team Leader	Takuo Suzuki	Aichi Prefectural University/ Associate Professor	Intelligent robotics, Medical and welfare engineering
Object recognition	Atsuno Yamaguchi	Aichi Prefectural University/ Second-year master's student	Study on point cloud registration
System control, Object recognition	Yuki Sakata	Aichi Prefectural University/ First-year master's student	Study on automatic cleaning of curved objects
Object recognition, Robot control	Takeshi Aihara	Aichi Prefectural University/ Senior	Study on classification and disposal of trash
Robot control	Sho Iwata	Aichi Prefectural University/ Senior	Study on automatic serving of lunch boxes

Suzuki

Yamaguchi   Sakata

Aihara   Iwata

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HP etc.   http://www.ist.aichi-pu.ac.jp/lab/st/index.html