Japanese hospitality in the future

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Mobile gadget, Buru-Navi, which provides natural haptic communication

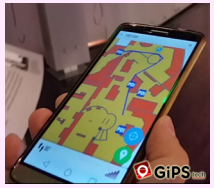
Illusory sensation of being pulled for user-friendly navigation in various environments

NTT R&D FORUM 2017

Novel communication-device named Buru-Navi, which gives pulling sensation, has been further evolved. Shell-Force and Cubic-force 6D, which have been unveiled as new types of Buru-Navi, enable intuitive navigation using pulling sensation in any direction. We hope to provide new haptic experiences for rich communication.

Maps navigation

Smartphone case type
(Buru-Navi, Shell-Force)



Pedestrian navigation

Virtual reality space navigation

Cubic type
(Buru-navi, Cubic-force 6D)

VR application

Features

- Natural human-interface configuration of Buru-Navi Shell-force: a smartphone case which is suitable for everyday use.
- Novel pedestrian navigation with illusory sensation of being pulled.
- Buru-Navi Cubic-force 6D enables us to feel omnidirectional pulling sensation in 3-axis translation and 3-axis rotation directions.
- Haptic navigation in VR (Virtual reality) space will be performed effectively.

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Application Scenarios

- Indoor pedestrian navigation system using haptic sensation in station premises, amusement park, and shopping malls, etc.
- Navigation system for visually impaired persons.
- Force display devices for VR or interactive games.
- Enriching broadcast contents by haptic experience.

Collaboration Partner

Experiment of haptic indoor navigation is performed in collaboration with NTT DATA and NTT DATA Italia. Actuator for Buru-Navi is developed with NIDEC SEIMITSU Corp.

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