Research Initiative on Base Technologies for Robots in the Future

**Bt-Fubots** 

## **IIS Social Cooperation Program Base Technologies for Future Robots**

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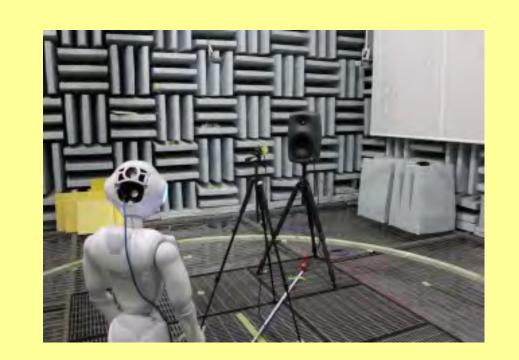
**Supporting Company:** 

**Nidec Corporation** 

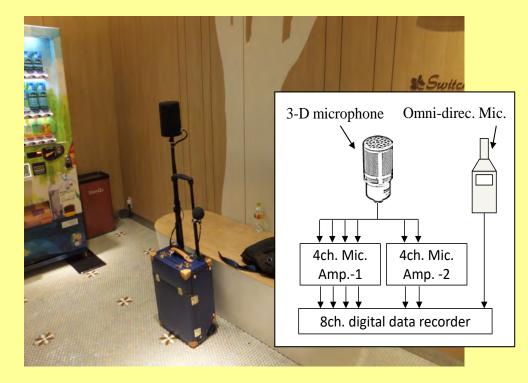
## Take the initiative in future robot technology

In the near future, the fields where robots play key roles will expand from current factory automation to daily life support. Innovation that covers these areas requires various technology improvements in design, manufacturing and IoT in addition to conventional developments in sensor, actuator and automatic control. To meet these requirements, this research section will aim to take the initiative in research and development of the overall base technologies for robots in the future.

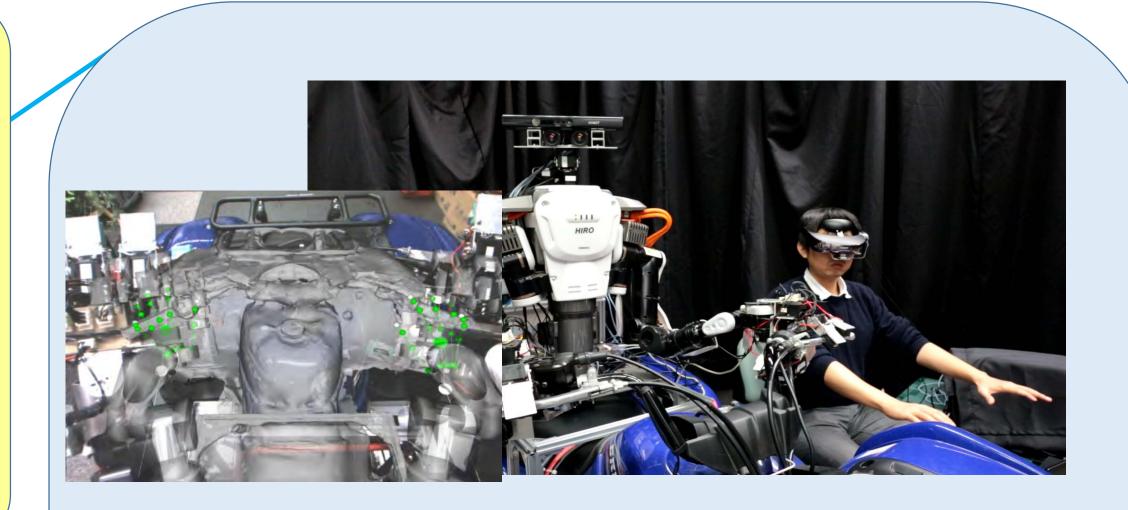
Implementation of Multi-material Additive Manufacturing to Robotic Applications Robots in sound environment — Sound emission from robots Mixed reality and teleoperation for Quasi-autonomous Robots



Intelligibility test for a robot



Sound field data acquisition system



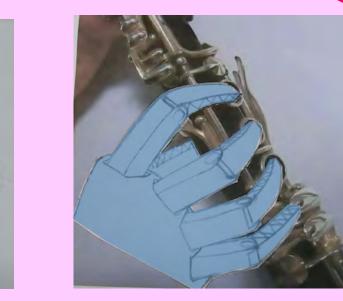
Humanoid robot remote teaching system



## Humanoid Robot







Application of Additive Manufacturing to actuator development



## Rover Type Laser Scanner

AM-MID fusion for resin-metal hybrid and fully three dimensional body



