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
◆ Precision and Thermal-assisted Forming of High-strength Parts for Transmitting High Torque
  (Application of Constitutive Equations based on Non-Associated Flow Rules for the Plastic Deformation of Anisotropic Sheet Metals)
◆ Mixed reality and teleoperation for Quasi-autonomous Robots

Humanoid Robot
Application of Additive Manufacturing to actuator development
AM-MID fusion for resin-metal hybrid and fully three dimensional body

Humanoid robot remote teaching system
Rover Type Laser Scanner

Application of Stamping Simulation to the Digital Design of the Dies