

IRH2017

Group 2

Utsunomiya technical high school

Theme3

Most advanced technologies of robots

○Amano Tadayuki

○Saitou Genki

○Takahashi Kazuyuki

○Yoshida Reo

Kimura Tomoaki



Questionnaire result

○ Robot for production.....57.5%

○ Service Robot.....42.5%

Q1,:What is necessary for the development and production robots

Robot for production

○Effectiveness and reliability are found. However, design characteristics are not demanded.

Service robot

○Safety and the movement is found. However, the power is not found.

Q2,:What is the main control technology or the main autonomy technology of the robot of your company?

A lot of basic control technologies such as servo control or the independence driving are used, and the utilization of the AI technology increases as it is in modern times.

Q3,:What do you hope for the future of robots?

The robot which is nearer to a person

It carries high-performance AI

Feasibility study
announcement

An abstract graphic featuring several overlapping lines. A thick grey line runs diagonally from the top-left towards the bottom-right. A thick green line runs diagonally from the bottom-left towards the top-right. A thick red line runs diagonally from the bottom-left towards the top-right, crossing over the green line. On the right side, there are vertical bars in red and black. The text 'Feasibility study announcement' is centered in the upper-left area.

History of robots

Golem



The origin of the robot is B.C.

Robot in a myth and the legend

19th century France • Paris

The doll which works by machine

Automata



Mechanical doll



Model of the Japanese robot

Unimate



1961

- The world's first industrial robot is made by American "Unimation Inc."
- It was designed that the control of 6 axes was possible and treated a part to 230kg at high speed.



WABIAN

1996

- Bipedal robot is developed in Waseda University.
- “WABIAN” has seeing and hearing information acquisition mechanism.



ASIMO

2000

- Honda announces the bipedal robot.
- It carries i-walk in a walk technology.

RUMBA

2002

- “I robot” company develops and sells “RUMBA”.
- “RUMBA” of the celebrity comes up with a cleaning robot.



KIROBO

2013

The world first astronaut robot succeeds in the first space trip as the development robot.



Pepper

2014

- SOFTBANK develops the world's first feelings recognition personal robot.
- It carries cloud AI and feelings recognition.



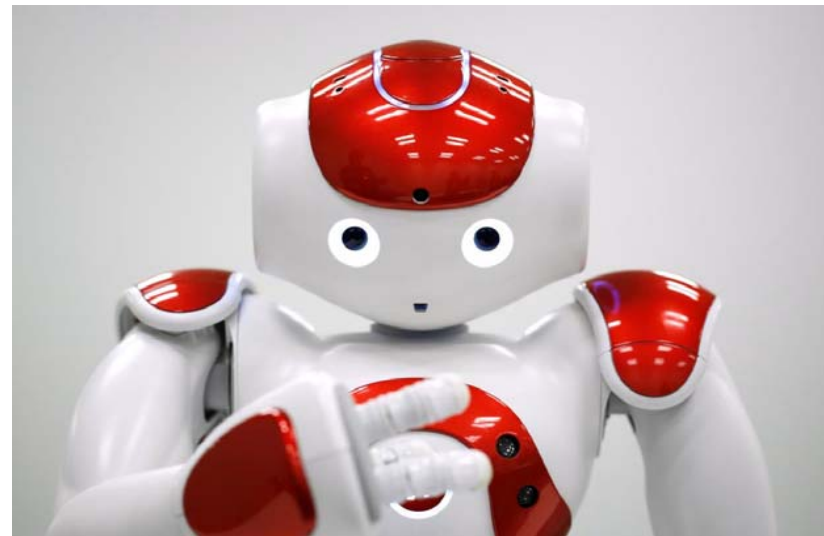
Palmi

2015

A communication robot is developed
by Fuji Software.



Example of the robot which AI was put on



Our opinion

- We learned that it might be pride ,a weak point from a robot by having observed feasibility study and yesterday's IREX.
- A robot and the human being not coexist from now on while making use of each other's good point.

Thank you for your hearing!