

Humanoid Robotics, Culture and Society of Japan

WASEDA UNIV. HRI

Afternoon Session: "ROBOTICS & BEYOND"

THE OPENING CONFERENCE

EURON Atelier on Roboethics 2006

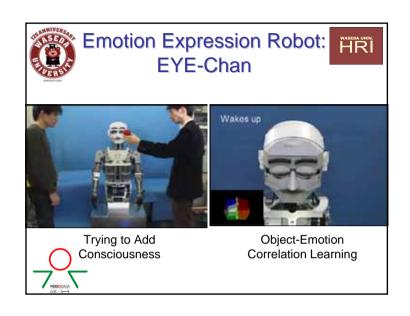
Palazzo Doria Spinola Genova, Italy February 27, 2006

Atsuo Takanishi(高西淳夫)
Dept. of Mech. Eng./Humanoid Robotics Institute, Waseda University









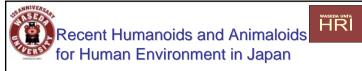








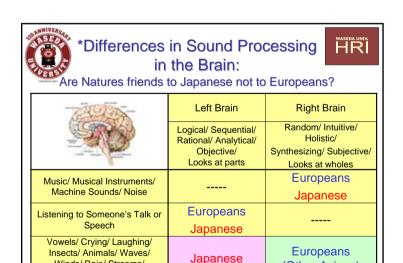




- TOYOTA: Partner Robots Performed in Aichi EXPO '05
- SONY: AIBO, SDR-3X (3 years of secret collaboration with Takanishi Lab.), SDR-4X, QRIO
- HONDA: P2, P3, ASIMO
- MITI: HRP-1, HRP-2
- TMSUK/SANYO: T-4, T-5, Banryu-Series (SANYO)
- Kitano Project(ERATO): PINO, PINO2, Morph, etc.
- NEC: R100, PaPeRo
- Mitsubishi Heavy Industries: Wakamaru
- ATR/MHI: Robovie, Robovie-2, Robovie-3
- HITACHI, Etc.

Winds/ Rain/ Streams/

Japanese Musical Instruments/



(Other Asians)



onomatopoela: Japanese Like to Linguistically Express Natures and Mental Conditions?



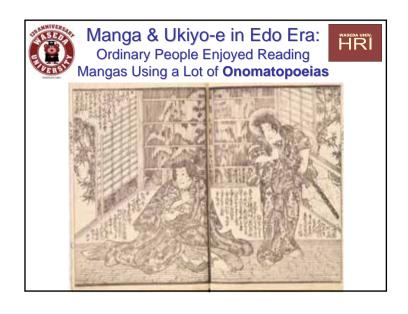
- Japanese' 12,000 Onomatopoeias VS 3,000 English ones*:
 - ぶらぶら(burabura)-loiter/lounge/ramble/roam/stroll,ちょこちょこ(chokochoko)-trot/waddle,どたどた(dotadota)-lumber/stomp/tramp,としんどしん(doshindoshin)-stomp/tramp/trot,のろのろ(noronoro)-loiter,のそのそ(nosonoso)-lounge,のっそのっそ(nosonoso)-lumber,すたすた(sutasuta)-hurry,せかせか(sekaseka)-trot,てくく(tekuteku)-tramp/trudge,とほどば(tobotobo)-plot/trudge,よちよち(yochiyochi)-toddle/totter/waddle,よたよた(yotayoya)-stagger/waddle,よろよろ(yoroyoro)-stagger
- How AIBO Walks?*
 - とことこ(tokotoko), てくてく(tekuteku), ういーん(ueen), かたかた(katakata), よちよち(yochiyochi), かしゃかしゃ(kaysakasya), , , 等々(etc)

* By Prof. Ikuhiro Tamori(2000's)













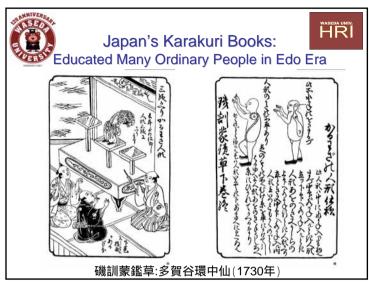


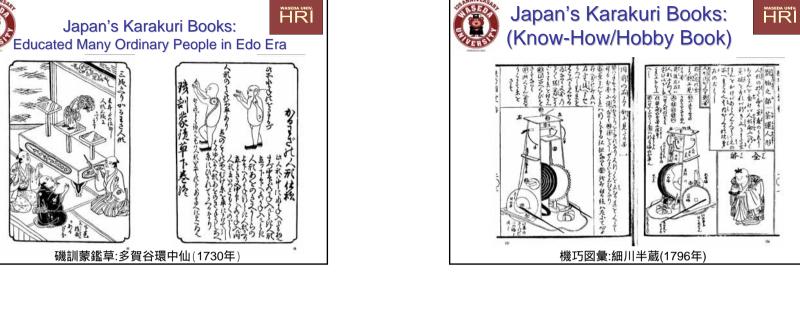


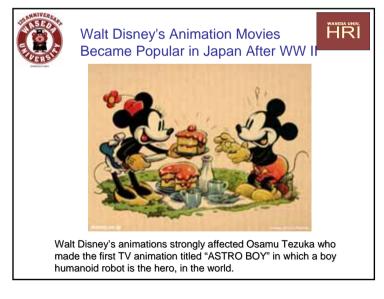
























- Established in April, 2000
- 8 Fulltime Professors and 10 Visiting Professors/Researchers including from Overseas
- More than 60 graduate students and post-doc researchers (More than 100 including undergraduates)
- More than 30 ongoing projects
- Organizing Humanoid Consortium
- Supported by: METI, NEDO, MEST, Gifu Pref., TMSUK, SANYO, SONY, HITACHI, NTT, NTT DoCoMo, OKINO, OSADA, ZMP, Fukuoka Pref., Fukuoka City, Niigata Pref.
- RoboCasa: SSSA-Waseda Joint Laboratory (2003/4/1)
- Center of Excellence in the 21st Century in Robotics Show! (2003/7)
- Super COE on Advanced Science and Medical Care (2004/7)



High Social Acceptability of Robots in Japan



- Acceptability of Humanoids/Animaloids
 - Feel/Accept Life-likeness through the Robots which Mimics Humans and Animals
- Social Acceptability depends on Religious and Cultural Backgrounds
 - Western Countries (Monotheism) and Japan/Asian Countries (Animism / Polytheism)
 - Organ Transplantations VS Artificial Organs
- Need of Social Systemic Preparation for Robot Acceptable Society
 - Change of Lows/Regulations to Accept Robots (Special Zone for Robot Test and Experiments in Fukuoka)
 - Licensing/Insurance System
 - Black Chip (Black Box) for Better Life with Robots







