KOKORO NEWS
NO.68 2007.11

Helpful entertainment!

Special topic on a fun-added unique machine

DREAM GOAT
Edogawa Boat Race Course (in Edogawa-ku, Tokyo)

New member at the boat race course!
Let's go and see the "DREAM GOAT"!

A boat race ticket which was bought with a dream just turns into trash when you lose money at the race. The "DREAM GOAT", a robot goat which eats such losing tickets, has appeared at the Edogawa Boat Race Course. Don't throw away your losing ticket quickly but feed it to the DREAM GOAT. When you hold it out to its mouth, it starts to munch it as if it were a live goat. The dream which you placed on the ticket becomes nutrition for the DREAM GOAT, creating a bigger dream for the next race.

Contributing to beautification of the boat race course

The number of guests who take their losing tickets to the DREAM GOAT instead of throwing them away has been increasing. Some guests even pick up tickets off the floor to feed them to the goat. The DREAM GOAT also contributes to beautification of the boat race course!

Website of the Edogawa Boat Race Course (in Japanese only): http://www.edogawa-kyotei.co.jp/

Kokoro's robot technology is playing a major role in medical and research areas.

**The Nippon Dental University School of Life Dentistry at Tokyo, Dental Hospital
(Cooperation by J. Morita Mfg. Corp., Nissin Dental Products Inc. and Tokyo Sensor Co., Ltd.)**

Simroid

Simulation robot for dental training with realistic facial expressions

It is necessary in dental medicine education to improve technology and to learn how to properly deal with a patient. "Simroid" realizes such ideal training for student dentists. The simulation robot reacts to dental treatment by voice and action and the results of dental treatment skills and responses taken are recorded in a dedicated PC and can be played back later. Further realistic training can be performed compared to one using an existing human-type model as the robot reacts like a real human being by expressing its pain, making an uneasy facial expression and raising its left hand.

The chair unit and software for the dedicated PC were built by J. Morita Mfg. Corp., and the teeth unit and teeth sensors by Nissin Dental Products Inc. and Tokyo Sensor Co., Ltd. Kokoro developed the body (except teeth) and the control system of Simroid. It is an epoch-making project in which the technology of "robots' facial expressions" traditionally used for entertainment was utilized for dental medicine education.

Clinical training using Simroid

Website of the Nippon Dental University
http://www.ndu.ac.jp/robot.htm

Website of J. Morita Mfg. Corp.
http://www.jmorita-mfg.co.jp/

Nissin Dental Products Inc.
http://nissin-dental.jp/index.html

Tokyo Sensor Co., Ltd.
http://www.t-sensor.co.jp/index.html

Child android (CAM-1)

Child-type robot which has a lot of capabilities incorporated in its compact body

The "child android" (CAM-1) has soft skin and flexible actuators all over the body to communicate with people in various ways. The actuators and sensors are incorporated in its compact body with the height of approximately 130cm. The CAM-1 is the product produced and sold by Kokoro. The product was delivered to the Socio SI Group in the "Japan Science and Technology Agency (JST) Exploratory Research for Advanced Technology (ERATO) ASADA Synergistic Intelligence Project". There, considered as a "humanoid for social development", more improvement has been added to it and R&D has been promoted on it. Kokoro's robots are helping in various research fields. Kokoro can accept orders for customization based on required specifications and needs for the research. Please contact us freely!
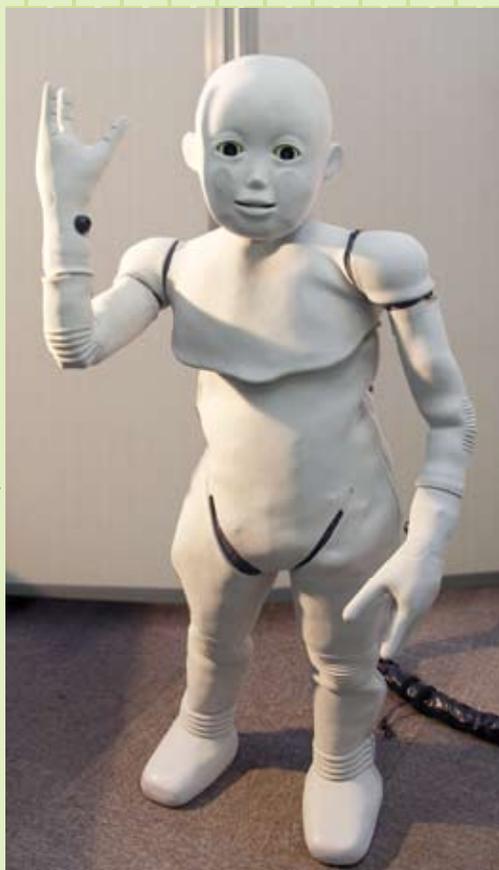
Specification outline of the "child android" (CAM-1)

- Body height: Approx. 130cm, Weight: 33kg
- The surface is covered with soft silicon skin.
- Pneumatic actuators (Quantity: 51), Motors for the eye (Quantity: 5)
- 197 touch sensors are incorporated under the skin all over the body and two cameras and two microphones are incorporated in the head.
- Artificial vocal chords are incorporated.