

Program

Saturday, 9 November 2013

- 10:00 – 10:10 Opening Remarks
- 10:10 – 10:50 Introductions on OIT
- 10:50 – 11:50 Invited Keynote Lectures 1-2
- 12:00 – 13:40 Lunch & Luncheon Poster Session
- 13:50 – 15:20 Special Lectures 1-3
- 15:20 – 15:30 Break
- 15:30 – 16:30 Invited Keynote Lectures 3-4
- 16:30 – 16:35 Closing Remarks

During the workshop, the following special lectures and invited keynote lectures are scheduled.

Special Lectures

- Universidad de Salamanca
Prof. Juan Manuel Corchad
- Technische Universität München
Prof. Sandra Hirche
- Osaka University
Prof. Minoru Asada
(Visiting Prof. of OIT)

Invited Keynote Lectures

- Technische Universität München
Prof. Thomas Bock
- Bergische Universität Wuppertal
Prof. Kai-Dietrich Wolf
- Embry-Riddle Aeronautical University
Assistant Prof. Iacopo Gentilini
- Disney Research
Dr. Katsu Yamane

Luncheon Poster Session

Research topics from OIT will also be presented by the members and the postgraduate students of OIT at the Luncheon Poster Session.

Organized by

Faculty of Engineering

- Department of Robotics
- Department of Electrical and electronic Systems
- Department of Electronics, Information and Communication Engineering
- Department of Mechanical Engineering
- Department of Design and Architecture

Faculty of Information Science and Technology

- Human Robotics R/D Center

Organizing Committee

- Chair: Prof. Yasushi Nishimura, Dean of Faculty of Engineering, OIT
Prof. Yutaka Kawata, Vice President of OIT
Prof. Hiroshi Tsutsui, OIT
Prof. Terushige Honiden, OIT
Prof. Mieko Ohsuga, OIT
Prof. Yukio Honda, OIT
Prof. Youichiro Maeda, OIT
Prof. Shigeru Ohmatsu, OIT
Prof. Yukimasa Miyagi, OIT
- Advisory: Prof. Minoru Asada, Osaka Univ., OIT
Prof. Tokio Martin Buss, TUM
Prof. Peter Gust, BUW
Prof. Takeo Kanade, CMU
Prof. Kenji Shimada, CMU



International Workshop on Human Friendly Robotics

November 9, 2013

Osaka, Japan

**Organized by
Osaka Institute of Technology
(OIT)**

Venue

Osaka Institute of Technology

Omiya Campus Room 691

5-16-1 Omiya, Asahi-ku, Osaka,

535-8585 Japan

<http://www.oit.ac.jp/english/index.html>

Preface

It is a great honor and pleasure to hold the International Workshop on Robotics on November 9, 2013 at Osaka Institute of Technology (OIT).

Founded in 1922, OIT was celebrated its 90th anniversary last year. Since its establishment, OIT plays an integral role in fulfilling our institution's mission of providing education and conducting researches which lead to a safe and prosperous society. In addition, OIT carries out joint and cooperative research projects with many partner universities around the world.

As a part of such activities, OIT initiated an annual international workshop in 2011 to enhance the collaboration with overseas partner universities by exchanging advanced research results. A different thematic area is selected for each year. Two years ago, "The International Workshop on Advanced Materials and Devices" was organized by Nanomaterials Microdevices Research Center of OIT. Last year, OIT International Workshop was organized by the Structure Research Center (SRC), and focuses on Front Research and Technology in Structural Engineering.

This year, OIT International Workshop is organized by the Department of Robotics, and focuses on Human Friendly Robotics. The Department of Robotics was established only four years ago, this workshop aims to make opportunities for researchers and engineers to exchange knowledge and to discuss issues regarding recent research developments and technologies in Robotics, and to deepen the friendship among the participants including the invited speakers from our partner universities.

Educational aspect is also relevant for this workshop, so the participation of our postgraduate and undergraduate students is encouraged.

We would like to welcome you all to participate in the workshop and exchange information, knowledge and friendship professionally and personally.

Topics of the Workshop

The workshop focuses on recent developments in the field of robotics such as,

- (1) Intelligent Robotics
- (2) Human Robot Communication
- (3) Brain Machine Interface, Brain Computer Interface
- (4) Medical Robotics
- (5) Simulations
- (6) Another topics related to Robotics

In the workshop, invited special lectures and keynote lectures are scheduled. Research topics of OIT will also be presented at the Poster Session by the members and the postgraduate students of OIT.

Venue

Osaka Institute of Technology, Omiya Campus
5-16-1 Omiya, Asahi-ku, Osaka 535-8585, Japan

<http://www.oit.ac.jp/english/index.html>

Registration Information

Those who intend to participate in the workshop, please send the following information to the International Center by e-mail. No registration fee is required for participation.

- Name
- Affiliation
- Number of participants
- Contact person and address

e-mail to kokusai@ofc.oit.ac.jp

If you wish to present some topics in the workshop including poster session, please contact with the Organizing Committee.

e-mail to tsutsui@bme.oit.ac.jp

Department of Robotics

Education and research of the synthesis of noble Robots, based on the knowledge of Neuroscience.

The concept of noble Robots in this Department is "human-friendly". Subjects of the department are Science includes Neuroscience, Brain machine interface and Biomedical engineering as well as Engineering includes Mechanics engineering, Electronics, Control engineering and Information engineering. The department aims to develop human resources who can work at research and development fields or production fields related to mechanical engineering, electronics, industrial robots and noble home-robots and so on.

Robot project is organized for undergraduate students to challenge many robot contests. Of course for postgraduate students, they challenge Robocup. In 2013, they won at @home league in Japan and won at soccer humanoid adult size league in the world.



Human Robotics R&D Center

Human Robotics R&D Center researches and develops robots that can exist in symbiosis with humans in the truest sense by making their lives safe and comfortable. Human Robotics R&D Center seeks to develop robots that can support human activities in a smooth and efficient manner.

