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# IRH2015

International Robotics Forum for High School Students

Tokyo Big Sight, Tokyo, Japan December 4-5, 2015



## General Information

The Robotics Society of Japan (RSJ), to provide opportunities to learn more about industrial and service robots to high school students who may not normally come into contact with them, held the Robot High School (Industrial Robots Workshop for High School Students) at the Tokyo Big Site, the site of the International Robot Exhibition, in 2009 and in 2011. Moreover, the RSJ, to provide opportunities to join international students, held the International Robotics Forum for High School Students 2013 (IRH 2013) in 2013. You can refer the detail of the IRH 2013 at the RSJ site; <http://www.rsj.or.jp/education/irh2013/report>. This year, the RSJ is going to held the International Robotics Forum for High School Students 2015 (IRH 2015) that will collaborate with the International Robot Exhibition 2015 (<http://www.nikkan.co.jp/eve/irex/>).

The lectures and explanations throughout the Conference will be given in Japanese but will be simultaneously interpreted into English. The Conference will offer an ideal opportunity for senior high school students from the around the world to communicate with each other through robots. Therefore, we look forward to your active participation.

The event will take place over two days. In the morning of Day One, Prof. Shin'ichi Yuta of the Shibaura Institute of Technology, who, as the leading expert on world robotic research, has been successively developing robust autonomous mobile robots, will give a lecture on the basic mobile robotics and learning through robots. This will be followed by a talk by Mr. Kazuhiko Yokoyama of Yasukawa Electric Corporation, who, as a leading engineer of robots, is currently engaged in robot development. Mr. Yokoyama will explain the mechanism and control of robots and also point out the highlights of the International Robot Exhibition.

We will prepare a challenge for all the participants. We will send you themes of robot study. You will study about them in advance, and in afternoon of Day One, you will visit the iREX 2015 and investigate real robots. In the morning of Day Two, you will present your study and investigation result. Exhibition scale of the iREX 2015 will be greater than that of the iREX 2013, so you will be able to fun and excitement of advanced robot technologies.

In the afternoon of Day Two, as the final event, awards will be given by the RSJ to groups that have given outstanding presentations.

We hope that many future robot researchers, engineers and entrepreneurs will be born today.



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## Overview

- Sponsored by: The Robotics Society of Japan
- Cosponsored by: Japan Robot Association, and Nikkan Kogyo Shimbun Ltd.
- Supported by: BYNAS Co., Ltd., ROBOCON MAGAZINE (Now Hiring!)
- Date and time: **Friday December 4, 2015**, 8:30-17:00, and **Saturday December 5, 2015**, 8:30-15:00
- Venue: At the site of the International Robot Exhibition 2015, Tokyo Big Sight, Tokyo, Japan
- Participation fee: **None**. We will provide the lunches during the event. **Travel expenses to and from Japan and within Japan, and other costs including accommodations while in Japan will be borne by the participant.**
- Schedule:
  - Friday December 4**
    - Morning Opening, and orientation
      - Lecture1: "Mobile Robotics: Technologies for the robots which can move around the environment by itself," Prof. Shin'ichi Yuta, the Shibaura Institute of Technology
      - Lecture2: "ABC of Working Robots," Mr. Kazuhiko Yokoyama, Yasukawa Electric Corporation
    - Afternoon Robot investigation: Visit and investigate iREX 2015  
(Theme of the investigation will give to the each school in advance)
  - Saturday December 5**
    - Morning Presentation: Robot investigation
    - Afternoon Awards ceremony, and closing (about 15:00)  
(The iREX 2015 will be opened until 17:00. If you have enough time, please fun the discussion with the participants, or visiting the exhibition.)

## Participation eligibility and application

- Eligibility: Senior High School Students and their teachers
  - Students will not be allowed to participate on their own but **must be accompanied by a teacher**
  - Maximum number of participants of each school is 20 that includes the number of the teacher.
- Maximum number of participants: **200**
- **Application deadline:**
  - Application will be on a first-come-first-serve basis and will close as soon as applicants reach the maximum number.** Information about present participant status is shown at the IRH 2015 website (<http://www.rsj.or.jp/en/education/irh2015>). Moreover, if you need detail of the status, please ask to a following address by e-mail. ([secretary@rsj.or.jp](mailto:secretary@rsj.or.jp))
- Applications and inquiries should be addressed to:
  - The Robotics Society of Japan
  - Add.: 2nd Fl. Blue Bldg., 2-19-7 Hongo Bunkyo-ku, Tokyo 113-0033, Japan
  - Tel: +81-3-3812-7594, Fax: +81-3-3812-4628
  - Email: [secretary@rsj.or.jp](mailto:secretary@rsj.or.jp)
- **Application method:**
  - Application should be made **through the accompanying teacher** by the following procedures.
- Please apply via e-mail titled "**IRH 2015 Application**," providing **the following necessary information and a list of applicants**, addressed to the above e-mail address.
  - Upon receipt of your application, the secretariat of the RSJ will send you a confirmation e-mail.
- **Necessary information:** Please provide contact information of **the accompanying teacher**.
  - Name of school/ Name and Title of the teacher/ Contact address/ TEL/ FAX/ E-mail/**
- **List of participants:** Please be sure to attach the list to the application e-mail. Please fill out the names of the accompanying teacher and the students in the "**List of participants of IRH 2015**" (You can download this file at "<http://www.rsj.or.jp/en/education/irh2015>"), and send it together with the above necessary information.
- **Notice:**
  - Themes of the presentation will be published at our site "<http://www.rsj.or.jp/en/education/irh2015>" and sent to the participants afterward.
  - All schools will be required to present own school introduction data for information sharing among participants. The schools that have experiences of robotics education such as WRO, RoboCup will be able to appeal own achievements in the introduction material. We will deliver the data to all participants. Detail of a format of the introduction data will be sent to the participants afterward.