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IRH2013

International Robotics Forum for High School Students

Tokyo Big Sight, Tokyo, Japan November 7-8, 2013



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 International Exhibition Center, the site of the International Robot Exhibition, in 2009 and in 2011. This year, as the International Robot Exhibition 2013 (iREX 2013, URL: <http://www.nikkan.co.jp/eve/irex/english/index.html>) is scheduled to be held simultaneously with the International Conference on Intelligent Robots and Systems (IROS 2013, URL: <http://www.iros2013.org/>), the RSJ has decided to call on high school students around the world and hold the International Robotics Forum for High School Students 2013 (IRH 2013).

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. Shigeo Hirose of the Tokyo Institute of Technology, who, as the leading expert on world robotic research, has been successively designing and developing robots based on new principles and mechanisms, will give a lecture on the method with which he has been creating robots. This will be followed by a talk by Mr. Akio Noda of Mitsubishi Electric Corporation, who, as a leading engineer of robots, is currently engaged in robot development. Mr. Noda will explain the mechanism of robots using actual robots and also point out the highlights of the International Robot Exhibition.

In the afternoon of Day One, the participating students will break up into several groups and work on research themes concerning robots that will be assigned to them. You will visit and research the International Robot Exhibition and try to find answers to the questions. Please be sure to ask as many questions as you can at each exhibition booth.

The afternoon of Day One and the morning of Day Two will be spent visiting the Exhibition and preparing the report. Each group will be asked to submit their research results by the beginning of lunch period. In the afternoon of Day Two, a presentation called "High School Students and Robots" will be given. During this session those who wish to give a presentation will be given the opportunity to showcase the initiatives in robot education of the senior high schools of each country, as well as talk about the contests they have entered and present their participating robots. By communicating their various innovations as well as the excitement of robots and listening to each other's presentations, we hope our participants will be able to share the fun and excitement of robot development. Awards will be given by the RSJ to groups that have given outstanding reports and presentations. We hope that many future robot researchers, engineers and entrepreneurs will be born today.



Supporter



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
 - Date and time: **Thursday November 7, 2013**, 10:00-16:30 and **Friday November 8, 2013**, 10:00-16:30
 - Venue: At the site of the International Robot Exhibition 2013, Tokyo International Exhibition Center
 - 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:
- Thursday November 7**
10:00-11:00 Lecture: "Introduction of Creative Robot Design," Prof. Shigeo Hirose, Tokyo Institute of Technology
11:10-12:40 Lecture: "ABC of Robotics," Mr. Akio Noda, Mitsubishi Electric Corporation
12:45-13:30 Lunch: At the site
13:30-17:00 Research of the assigned themes: At the site of International Robot Exhibition
- Friday November 8**
9:00-11:30 Preparation of reports:
At the site of the International Robot Exhibition and submitting reports
11:30-12:30 Lunch: At the site
13:15-16:55 iREX 2013 research report and presentation: High School Students and Robots (Robot contests, robot and engineering education, robot-related research, etc.) There will be a break during the presentation.
17:10-17:30 Awards ceremony and closing

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** (Accompanying teacher is limited to **one teacher per school**.)
If it were difficult to join students by some limits such as a cost of overseas trip, sole teacher participation would be also possible. In this case, the teacher should present about own education concerning with robot on the second day.
- Maximum number of participants: **100**
- **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 2013 website (<http://www.rsj.or.jp/en/irh2013>). Moreover, if you need detail of the status, please ask to a following address by e-mail. (secretary@rsj.or.jp)
- Applications and inquiries should be addressed to:
The Robotics Society of Japan IRH 2013 Dept.
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
- **Application method:**
Application should be made **through the accompanying teacher** by the following procedures.
 - Please apply via e-mail titled "**IRH 2013 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/
 - Synopsis of presentation: Please provide the following information.
(Presenters will be notified of presentation details at a later date.)
 - Title of presentation:
 - Synopsis of presentation: 300 words or less
 - **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 2013**" (You can download this file at "<http://www.rsj.or.jp/en/irh2013>."), and send it together with the above necessary information.