



Introduction of the RSJ

The Robotics Society of Japan (RSJ)

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Purposes, Activities
Organization, Members
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Japanese and International Journal
Annual conferences, Seminars
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Education
Industry-Academia Collaboration
The Great East Japan Earthquake

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1. About the RSJ

■ **Establishment: January 28, 1983**

- **Purposes:**
Promoting progress in academic fields and providing specialists with a venue for announcing their research and sharing technical information
- **Activities:**
 - Publishing: Journal of the RSJ, Advanced Robotics and Texts
 - Conferences: Annual Conference of the RSJ and Robotics Symposia (Sponsored by SICE, JSME and RSJ)
 - Seminar: Robotics Seminar
 - Awards: Best Paper Award, Advanced Robotics Best Paper Award so on
 - Committees: Special Interest Groups and Surveillance Committee (The Great East Japan Earthquake)
 - Globalization: Cosponsor of IROS and Ro-man, International Education

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Organization Map of the RSJ

■ **General Meeting (Delegates: 56)**

■ **Board of Directors (22)**

- President
- Vice Presidents
- General Affairs
- Budget and Finance
- Planning
- Publication of Japanese Journal
- Publication of International Journal
- Academic Activity
- Annual Conference
- International Affairs

- Auditors

■ **Administration Office (5)**

- Secretary General
- Staff

■ **Committees**

- Advisory Board
- Editorial Committee of the Japanese Journal
- Editorial Committee of the International Journal
- Activity Planning Committee
- International Affairs Committee
- Executive Committee of the Annual Conference
- Award Committees
- Publication Committee
- Task Force on RSJ Future Planning
- Compliance Committee, so on

Number of Members (at Dec. 31, 2016)

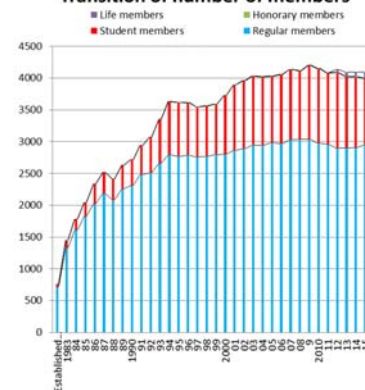
■ **Number of individual members: 4,183**

Regular members: 2,975, Student members: 1,106

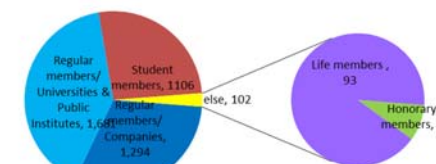
Honorary members: 9, Life members (Since 2012): 93

■ **Number of Supporting members: 79**

Transition of number of members



Breakdown of members



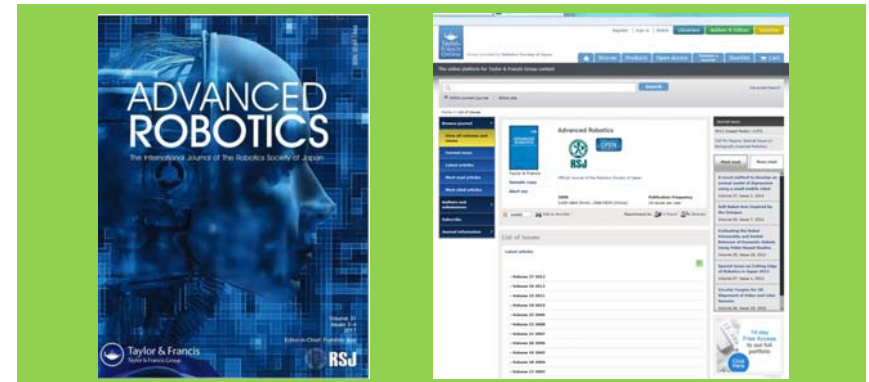
2. Activities: Journal of the RSJ

- **Journal of the RSJ**: Since 1983, Last volume: 33, Published 10 Issues per year
- Carrying papers, review articles and information for members
 - All individual members can read and download the papers and the review articles at J-Stage online archive.



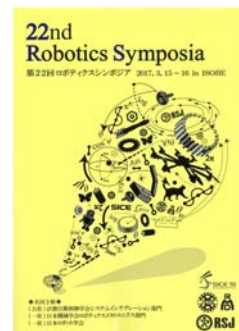
International Journal (1)

- **Advanced Robotics**: Since 1988, Last volume: 29,
Published 24 issues per year,
Publisher: Taylor & Francis
- Carrying Only English papers
 - All individual members can read and download the papers at an online archive of Taylor & Francis.



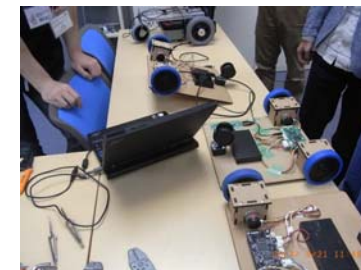
Conferences

- **Annual Conference of RSJ**:
- Main event held by the Society in September.
 - The 34th Annual Conference was held in 2016 at Yamagata Univ..
- **Robotics Symposia (Sponsored by SICE, JSME and RSJ)**
- Purpose: Higher level presentation and discussion
 - The 22th Symposium was held in 2017.



Robotics Seminar

- Seminars that cover everything from basic to advanced technical topics
- **About 7 seminars per year**
- Average number of participants in one seminar: About 50
- Services for the supporting members: Free ticket and Discount ticket
- Remote seminar has been started since 2013.



Globalization

- Co-sponsorship of International conferences
- Cooperation with Asian researchers

■ Co-sponsorship of International conferences

- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
- International Symposium on Robot and Human Communication (Ro-Man)



■ Asian Robotics Society Union (ARSU)

- Established in 2006
- Participating nations: Korea, China, Taiwan, Australia, Thailand, Singapore, Vietnam, India, Japan



■ Technical-sponsorship of International conferences

- International Symposium on Artificial Life and Robotics (AROB)
- IEEE International Conference on Multisensor Fusion and Integration for the Intelligent Systems (MFI)
- IEEE International Conference on Systems, Man and Cybernetics (SMC)
- International Conference on Advanced Robotics (ICAR)
- International Symposium on Robots (ISR)
- Micro Materials Conference (Micro Mat)
- International Symposium on Distributed Autonomous Robotic Systems (DARS)

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Awards

Honoring of academic activities and contributions to society

- Best Paper Award
- Advanced Robotics Best Paper Award
- Technical Innovation Award
- Young Investigation Excellence Award
- Robotics Symposia Young Investigator Excellence Award
- Robots and Society Award
- Distinguished Service Award



30th anniversary founder award
(At Sapporo city in 2012)

Committees

■ Special Interest Groups: (14 committees in 2017)

- Special Interest Group on "Robotics Philosophy"
- Special Interest Group on "Humanoid Robotics"
- Special Interest Group on "Soft Robotics"
- Special Interest Group on "Open Intelligence"
- Special Interest Group on "Intelligent Home Robotics"
- Special Interest Group on "Life Creative Assistance Technology"
- Special Interest Group on "Data Engineering Robotics"
- Special Interest Group on "Network Robotics Services"
- Special Interest Group on "Robotics Young Researchers Network in Kansai"
- Special Interest Group on "Robotics Association for Young Researchers "HUROBINT"
- Special Interest Group on "Human Centric Robotics"
- Special Interest Group on "Robot Technology in Hokkaido"
- Special Interest Group on "Car Robotics"
- Special Interest Group on "Intellectualization and Structuralization of Spaces in Robotics"

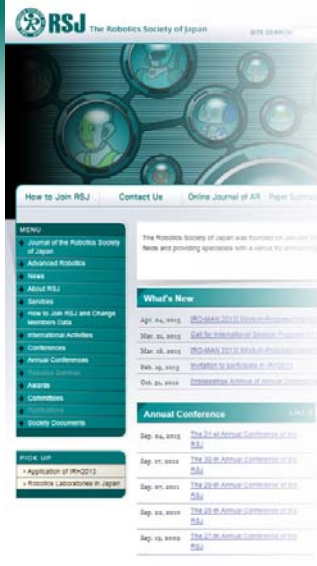
■ Surveillance Committee: (3 committees in 2015)

- Surveillance Committee on "Decommissioning Robotics " (Since 2015. 1)
- Surveillance Committee on "Industry-Academia Collaboration " (Since 2013. 5)
- Surveillance Committee on "Extensive Technical Platform for Disaster Response " (Since 2013. 1)

■ Fundamental Category Committee: (2 committees in 2015)

- Committee on "Robotics Education " (Since 2015. 4)
- Committee on "Construction Robot" (Since 2013. 10)

3. Services on Web Site (<http://www.rsj.or.jp/en>)



- **Membership Services:**
 - Renewal and Confirmation of Private Membership Data
 - Online RSJ Journal (J-Stage): Reading and downloading papers and reviews that were published in the last year
 - Online Advanced Robotics: Reading and downloading all the papers in back issues
 - Proceedings Archive of Annual Conference of RSJ
- **Open Services for Non Members:**
 - Robotics Laboratories in Japan: Link site
 - History of Robotics Research and Development of Japan
 - Online RSJ Journal (J-Stage): Pay service
 - Online Advanced Robotics: Pay service

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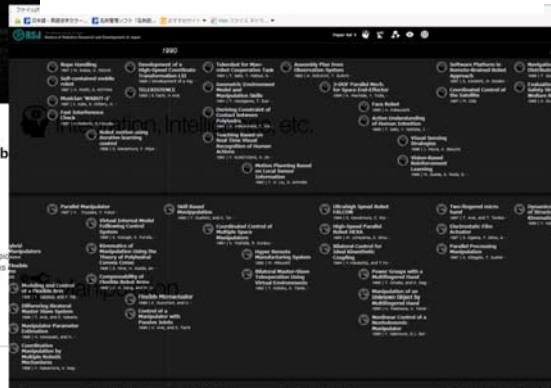
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History of Robotics Research and Development



■ Archive of Historical Japanese Robotics Research from 1960s to current research

<http://www.rsj.or.jp/en/services/general>



4. Contribution to Education

■ Robot High school:

- Cooperation with the International Robot Exhibition (IREX) 2009 and 2011
- Japanese high school students experienced dismantling and operation of real industrial robots.

■ International Robotics Forum for High School Students (1st: IRH 2013, 2nd: IRH 2015)

<http://www.rsj.or.jp/en/education/irh2013/report>
<http://www.rsj.or.jp/en/education/irh2015/report>

- An event cooperated with IREX
- Call on high school students around the world
- Interchanging between students, Advanced robot lectures and Presentations by students

3rd IRH 2017 will be held in this December.



Robot High school



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IRH 2015

5. Contribution to Society: The Great East Japan Earthquake

Cooperation for a response to the Great East Japan Earthquake:

- Establish of the Surveillance Committee on Tohoku Earthquake (2011. 3)
- Cooperation with Disaster Response Robotics Task Force (volunteer action of robotics researchers and engineers) (2011. 4)
- Joint statement by the Japanese academic societies concerning with robotics (2011. 4)
 "Joint statement for application of Japanese robot technologies to the disaster responses for the Great East Japan Earthquake and the nuclear disasters of Fukushima"

The Japan Robotics Society

The Japan Society of Mechanical Engineers: Robotics and Mechatronics Division

The Society of Instrument and Control Engineers: System Integration Division

IEEE Robotics and Automation Society, Japan Chapter

IFTOMM, Japan Council

Action of the Surveillance Committee on Tohoku Earthquake:

- Subcommittee for recording nuclear disaster response technologies:

- Final report (In Japanese) (2014.10)

http://www.rsj.or.jp/databox/committees/141001saigaikiroku_fainai_zanntei.pdf

- Subcommittee for recording general disasters response technologies:

- Interim report at the 30th Annual Conference (2012.9)

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6. World Robot Summit (WRS)

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World Robot Challenge (WRC)

WRS will bring together the world's most advanced robots and robotic technologies along with researchers and developers of robots and key government and private industry players from around the world. The Robot Excellence gathered here will face off in these challenges and exhibitions (through competitions, demonstrations, discussions and award presentations) to show the changes that will take place in industry, society and daily life.

As a part of WRS, the World Robot Challenge will feature competitions in four categories: Industrial Robotics Category, Service Robotics Category, Disaster Robotics Category, and Junior Category.

Industrial Robotics Category **Service Robotics Category** **Disaster Robotics Category** **Junior Category**

World Robot Summit 2018 (2018/10.17~22 Tokyo Big Sight)

World Robot Summit 2020 (2020/10 Aichi International Exhibition Center)

(2020/8 Fukushima Hama-Dori Robot Testing Zone)

6. World Robot Summit (WRS)



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Thank you for your attention.

International Journal (2)

- Number of contributions increases year by year. 536 contributions in 2015
- Contributions from Japan and East Asia are major.

