Introduction of the RSJ

The Robotics Society of Japan (RSJ)
CONTENTS

1. About the RSJ:
   Purposes, Activities
   Organization, Members

2. Activities:
   Japanese and International Journal
   Annual conferences, Seminars
   Globalization, Awards, Committees

3. Services on Web Site:

4. Contribution to Education:

5. Contribution to Society:
   The Great East Japan Earthquake
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 Paper Awards so on
• Committees: Special Interest Groups and Surveillance Committee (The Great East Japan Earthquake)
• Globalization: Cosponsor of IROS and Ro-man, International Education
Introduction of RSJ

Organization Map of the RSJ

- General Meeting (Delegates: 59)
- Board of Directors (23)
  - President
  - Vice Presidents
  - General Affairs
  - Budget and Finance
  - Planning
  - Publication of Japanese Journal
  - Publication of International Journal
  - Academic Activity
  - Annual Conference
  - International Affairs
  - Auditors

- 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

- Administration Office (5)
  - Secretary General
  - Staff
Number of Members (at Dec. 31, 2021)

- Number of individual members: 3,664 (Regular members: 2,821, Student members: 675, Honorary members: 9, Life members: 159)
- Number of Supporting members: 100
2. Activities: Journal of the RSJ

- Journal of the RSJ: Since 1983, Last volume: 40, Published 10 issues per year
- Carrying papers, review articles and information for members
- All individual members can read and download the review articles at J-Stage online archive. All papers are Open Access!
Advanced Robotics : Since 1988, Last volume: 36, 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.
• Number of contributions increases year by year. 514 contributions in 2020
• Impact factor of AR was 1.699 in 2020
• Contributions from Japan and East Asia are major.
Conferences

■ Annual Conference of RSJ:
  • Main event held by the Society in September.
  • The 39th Annual Conference (virtual) was held in 2021

■ Robotics Symposia (Sponsored by SICE, JSME and RSJ)
  • Purpose: Higher level presentation and discussion
  • The 27th Symposium (virtual) was held in 2022.
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

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

- Pacific-Asian Robotics Society Union (PARSU)
  - 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)
Awards

Honoring of academic activities and contributions to society

- Best Paper Award
- Advanced Robotics Paper Awards
- Technical Innovation Award
- Young Investigation Excellence Award
- Excellent Research and Technology Award
- Excellent Presentation Award
- Young Researcher Excellent Presentation Award
- Robotics Symposia Excellent Research and Technology Award
- Robotics Symposia Young Investigator Excellence Award
- International Session Best Presentation Award
- Robots and Society Award
- Distinguished Service Award
- Excellent Student Award
Committees

■ Special Interest Groups: (15 committees in 2022)
  - Special Interest Group on “Care Robot”
  - Special Interest Group on “Career Path Development for Young Researchers”
  - Special Interest Group on “Robotic Law and Ethics”
  - Special Interest Group on “Assembling Technologies for Complex and High Precision Machine”
  - Special Interest Group on “Play and Robot”
  - 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 “Data Engineering Robotics”
  - Special Interest Group on “Network Robotics Services”
  - Special Interest Group on “Human Centric Robotics”
  - Special Interest Group on “Robot Technology in Hokkaido”
  - Special Interest Group on “Intelligent Space”

■ Surveillance Committee: (5 committees in 2021)
  - Surveillance Committee on “Robot Application against Covid-19“ (Since 2020. 9)
  - Surveillance Committee on “Academic Robot Startup“ (Since 2020. 1)
  - 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 2019)
  - Committee on “Robotics Education “ (Since 2015. 4)
  - Committee on “Construction Robot” (Since 2013. 10)
3. Services on Web Site (https://www.rsj.or.jp/en)

New RSJ Home Page was debuted in September 2019

- Top page with easy-to-read topics and important items
- Menu design for easy access to necessary information
- Publication of useful information: Individual member services, etc.
ROBOGAKU Home Page was debuted in September 2019

- New information media of RSJ
- Randomly publish cutting edged robotics news on Top page
- Publication of social topics concerning with robot applications

Useful contents:
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.

  [Links to reports for each year]
  • An educational event cooperated with iREX
  • Call on high school students around the world
  • Interchanging between students, Survey of robots at iREX and Presentations by students
5. Contribution to Society: The Great East Japan Earthquake

- Coopetition 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 Hukushima”
    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:
      http://www.rsj.or.jp/databox/committees/141001saigaikiroku_fainal_zanntei.pdf
  - Subcommittee for recording general disasters response technologies:
    - Interim report at the 30th Annual Conference (2012.9)