

## Call for Papers

**International Symposium on Automation and Robotics in Construction 2006 (ISARC 2006)  
-- Robot Technology (RT) and Information Technology (IT) Guiding the Construction Industry --****October 3 (Tues.) - 5 (Thurs.), 2006****International Conference Hall, Waseda University in Tokyo****Organized by**

Japan Society of Civil Engineers (JSCE), Architectural Institute of Japan (AIJ), Robotics Society of Japan (RSJ), Advanced Construction Technology Center (ACTEC), Japan Construction Mechanization Association (JCMA), Japan Robot Association (JARA)

**Internationally Sponsored by**

International Association for Automation and Robotics in Construction (IAARC)

**Technically Co-Sponsored by**

IEEE Robotics and Automation Society (tentative)

**Supported by**

Ministry of Economy, Trade and Industry (METI), Ministry of Land, Infrastructure and Transport (MLIT), Building Contractors Society (BCS), Japan Institute of Construction Engineering (JICE), Manufacturing Science and Technology Center (MSTC), Associated General Constructors of Japan, Japan Federation of Construction Contractors (JFCC), Building Center of Japan (BCJ), Japan Civil Engineering Contractors' Association, Inc.

**Overview**

The 23rd ISARC, "International Symposium on Automation and Robotics in Construction 2006 (ISARC 2006)" will be held in Tokyo, from October 3 to 5, 2006.

ISARC 2006 has set "Robot Technology (RT) and Information Technology (IT) Guiding the Construction Industry" as its main topic, to promote modernization of building production systems and technical innovations of the construction robot field in construction industries in the world.

The symposium is expected to have presentations on the current and future robot usage for construction activities, including robotic component, site & field application, planning, computerized management, environment issue, disaster prevention, safety recovery, renewal, and quick construction.

**Joint events**

A panel poster exhibition and post-symposium tour are being planned as joint events.

(1) **Panel poster exhibition** (exhibition fee charged)

This is an exhibition of panel posters relating to automation, robotics, and equipment related to the symposium theme.

(2) **Post-symposium tour** (participation fee charged)

After the symposium is held, a post-symposium tour will be provided for overseas participants that will show the university, research labs and other relevant facilities, and automated construction sites.

## Topics

Topics of interest include, but are not limited to:

### 1. Future Outlook on Construction Production

- |  |   |
|--|---|
| (1) Robot and IT needs at construction sites             | (4) Robotized construction and design issues      |
| (2) Condition of construction robot development          | (5) Planning and management technology for robots |
| (3) Effective use of design and construction information |   |

### 2. Planning and Management Technology

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|--|--|
| (1) Economic analysis of construction robots     | (5) Knowledge engineering and AI use                   |
| (2) Construction planning and management methods | (6) Virtual reality technology                         |
| (3) IT usage technology                          | (7) Logistics and CALS                                 |
| (4) Computerized construction                    | (8) Quality and productivity of robotized construction |

### 3. Robot Key Technology

- |   |                                 |
|---|---------------------------------|
| (1) Sensor and image processing                       | (5) Mobile robot                |
| (2) End effector                                      | (6) Human interface             |
| (3) Teaching methods                                  | (7) Measurement and Diagnostics |
| (4) Remote control and autonomous distributed control | (8) Information systems         |

### 4. New Areas and Fields

- |  |                                      |
|--|--------------------------------------|
| (1) Environment-related IT and robot technology                    | (4) Renewal (maintenance and repair) |
| (2) Disaster prevention-related IT and robot technology            | (5) Rapid overpass construction      |
| (3) Safety recovery (humanitarian demining, disposal of munitions) |                                      |

### 5. Applications

- |                                       |   |
|---------------------------------------|---|
| (1) Underground walls and foundations | (6) Assembly, finishing, and service work |
| (2) Tunnel and dam construction       | (7) Transporting and lifting              |
| (3) Building construction             | (8) Measurement and Inspection            |
| (4) Unmanned construction             | (9) Renewal and demolition                |
| (5) Marine construction               |   |

## Paper submission guidelines

The reviewing of papers is divided into two stages: Abstracts and full papers.

1. The author should write an abstract not exceeding two pages (approximately 300 to 500 English words) with the following information, and submit it in PDF format through the website.

- (1) Topic (from list or suggested)
- (2) Paper title
- (3) Author/speaker (if joint authors, the speaker's name should be indicated by \*)
- (4) Company/organization, department, position, address, telephone number, facsimile number, and e-mail address

2. Due date for submission of abstracts: February 28, 2006 (Abstracts MUST be received at the office by this date.)

3. Notification of acceptance or rejection will be made around April 2006. Authors of the accepted abstracts will be asked to provide full papers.

4. Due date for submission of full papers: May 31, 2006 (Papers MUST be received at the office by this date.)

Notification of acceptance or rejection will be made around July 2006.

5. Awards will be presented to the best papers.

\*Proceedings will be produced with an ISBN number.

**Important Dates:**

- **February 28, 2006: Due date for submission of abstracts**
- **April 2006: Notification of acceptance or rejection**
- **May 31, 2006: Due date for submission of full papers**
- **July 2006: Notification of acceptance or rejection**

**For further information:**

ISARC 2006 Secretariat  
 c/o Japan Robot Association (JARA)  
 Kikaishinko Bldg., 3-5-8 Shiba-koen  
 Minato-ku, Tokyo 105-0011, Japan  
 TEL : +81 3 3434 2919 , FAX : +81 3 3578 1404  
 E-mail : [isarc2006@jara.jp](mailto:isarc2006@jara.jp)  
 URL : <http://www.jara.jp/isarc2006/>

**For abstract submission:**

ISARC 2006 Paper Submission Office  
 c/o ICS Convention Design, Inc.  
 Sumitomo Corp. Jinbocho Bldg.,  
 3-24, Kanda-Nishikicho  
 Chiyoda-ku, Tokyo 101-8449, Japan  
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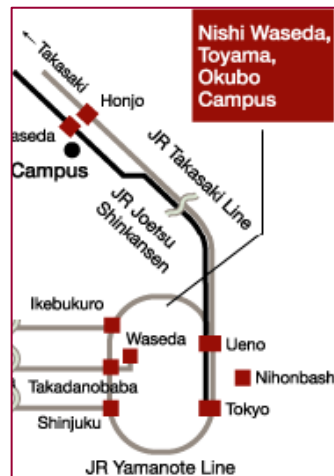
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## Venue

[International Conference Center \(Ibuka Memorial Hall at Center Scholarly Information\)](#)

Nishi-Waseda Campus, Waseda University (<http://www.waseda.jp/eng/campus/index.html>)

Address: 1-6-1 Nishi-Waseda Shinjuku-ku, Tokyo Japan



By JR (Japan Railway)- Yamanote Line - Takadanobaba Station (Approx. 20 min. walk)

By Subway-Tokyo Metro - Tozai Line - Waseda Station (Approx. 5 min. walk)

Tokyo City Bus and Taxi are available from Shinjuku and Takadanobaba area.