

Post Show Report

Organizers Japan Robot Association (JARA)

THE NIKKAN KOGYO SHIMBUN



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One of the largest robot trade shows in the world

The newest robot technologies and products from Japan and around the world.



We are pleased to inform you that thanks to your supports, International Robot Exhibition 2019 (iREX 2019), held from 18th to 21st December, came to an end with great success.

The number of exhibiters this year was 637 and the number of booths was 3,060. This marks the largest number ever, breaking the record of previous iREX in 2017. As organizers, we would like to express our deep gratitude to all the exhibitors, related authorities, organizations and associations as this achievement would not be made if it were not for your warm supports.

The contents and the brief report on iREX2019 are shown in the following pages for your reference.

Thank you very much again, and we sincerely appreciate your continued supports.

Japan Robot Association (JARA)
THE NIKKAN KOGYO SHIMBUN, LTD.



Name

INTERNATIONAL ROBOT EXHIBITION 2019 (iREX 2019)

Theme

"The way towards a friendlier society, bridged by robots"

Purpose

The purpose of the exhibition is to gather and exhibit industrial/service robots and related equipment from around the globe under one roof, to help improve the technology to use robots and market development, and to contribute to the creation of new markets and promotion of industrial technology of robots.

■Date / Time

Dec. 18 (Wed.) \sim 21 (Sat.), 2019 / 10:00 \sim 17:00

Venue

Tokyo Big Sight, Aomi Halls, West Halls, South Halls

Organized by:

Japan Robot Association (JARA)/ THE NIKKAN KOGYO SHIMBUN, LTD.

■Supported by;

Ministry of Economy, Trade and Industry / Ministry of Health, Labour and Welfare / Ministry of Agriculture, Forestry and Fisheries / Ministry of Land, Infrastructure and Transport / Ministry of Internal Affairs and Communications / Ministry of Education, Culture, Sports, Science and Technology / Japan Chamber of Commerce / New Energy and Industrial Technology Development Organization (NEDO) / Japan External Trade Organization (JETRO) / NHK

■Special Supported by:

The Society of Instrument and Control Engineers / Communications and Information Network Association of Japan / Manufacturing Science and Technology Center / All Japan Plastic Products Industrial Federation / The Association for Technical Aids / Japan Amusement Machine and Marketing Association / The Japan Machinery Federation / Japan Metal Stamping Association / Japan Clean Environment Promotion Organization / Japan Construction Equipment Manufacturers Association / Japan Construction Machinery and Construction Association / Japan Machine Tool Builders' Association / The Japan Society of Industrial Machinery Manufactures / Japan Automobile Manufacturers Association / Japan Auto Parts Industries Association / The Japan Food Machinery Manufacturers' Association / Japan Forming Machinery Association / The Iron Steel Institute of Japan / Japan Electric Measuring Instruments Manufacturers' Association / The Japan Electrical Manufacturers' Association / Nippon Electric Control Equipment Industries Association / Japan Painting Contractors Association / Semiconductor Equipment Association of Japan / Japan Assistive Products Association / The Association of Care Goods Providers / The Japan Institute of Material Handling / Japan Fluid Power Association / Japan Belt Association / Japan Association of Corrosion Control / Japan Packaging Machinery Manufacturers Association / The Japan Welding Engineering Society / The Robotics Society of (Random order) Japan / Micromachine Center / Robot Revolution Initiative

Admission

JPY1, 000 (Free admission for pre-registrants, invitation holders or under 16)

■Scale of Exhibition

Exhibitors	637 exhibitors (*612)
Booths	3,060 booths (*2,775)

(*Number of previous iREX in 2017)

Overseas Exhibitors

95 exhibitors, 389 booths

• Exhibiting Countries: **16 countries and regions**USA, Italy, Austria, Canada, South Korea, Singapore, Switzerland, Sweden, Thailand, China, Taiwan, Denmark, Germany, Norway, Monaco, Romania

■Number of Visitors

Date	Weather	Number of visitors (Number of previous iREX in 2017)				
Dec. 18 (Wed.)	*/*	31,939 (29,613)				
Dec. 19 (Thu.)	* /	37,068 (34,531)				
Dec. 20 (Fri.)	*/*	42,697 (41,035)				
Dec. 21 (Sat.)	A	29,429 (25,301)				
Total		141,133 (130,480)				

Overseas Visitors :

64 countries, 7,308 visitors

■Concurrent Exhibitions:

· Parts Feeder Exhibition 2019 Organizers: Japan Parts Feeder Industrial Association/ THE NIKKAN KOGYO SHIMBUN, LTD.

■Special Exhibition Zone:

- · The 8th Robot Awards Joint Exhibition
- Hands-on Projects (only on 21st December)
 World Robot Summit Trial Challenge 2019



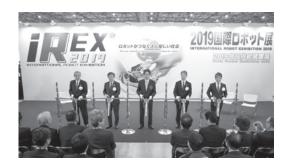
Grand Opening / Ribbon Cutting Ceremony

Date: Dec. 18 (Wed.), 2019 9:30-10:00 Venue: Aomi Hall A, Tokyo Big Sight Number of Participants: Approx. 200









Mr. Yoji Ueda

Mr. Yasuhiko Hashimoto

Mr. Haruhiro Imizu

(Program)

Guest Speech Mr. Yoji Ueda

Deputy Director-General, Manufacturing Industries Bureau,

Ministry of Economy, Trade and Industry

Organizer Speech Mr. Yasuhiko Hashimoto Chairman, Japan Robot Association (JARA)
Organizer Speech Mr. Haruhiro Imizu President, THE NIKKAN KOGYO SHIMBUN, LTD.

List of Attendees of Ribbon Cutting Ceremony:

Mr. Yoji Ueda Deputy Director-General, Manufacturing Industries Bureau,

Ministry of Economy, Trade and Industry

Mr. Yasuhiko Hashimoto Chairman, Japan Robot Association (JARA)

Mr. Hiroshi Ogasawara Chairman of International Robot Exhibition 2019 Working Committee

Mr. Hiroyuki Nagai Chairman, Japan Parts Feeder Industrial Association Mr. Haruhiro Imizu President, THE NIKKAN KOGYO SHIMBUN, LTD.



Opening Reception

Date: Dec. 18 (Wed.), 2019 17:45 - 19:15

Venue: Reception Hall A., Conference Tower 1F, Tokyo Big Sight

Number of Participants: Approx. 600





Concurrent Events

iREX Robot Forum 2019 [Robots as human partners - in the changing workplaces]

Date Dec.18 (Wed.)

Time 15:00~17:00

Number of Participants Approx. 900

Venue International Conference Room, Conference Tower 7F, Tokyo Big Sight

Organizers Japan Robot Association (JARA), THE NIKKAN KOGYO SHIMBUN

Simultaneous Interpretation

Panelist

Kawasaki Heavy Industries

Managing Executive Officer, General Manager, Robot Division

Mr. Yasuhiko Hashimoto

FANUC

Member of the Board Executive Managing Officer, General Manager,

ROBOT Business Division Mr. Kiyonori Inaba

NACHI-FUJIKOSHI

Senior Corporate Officer, General Manager of IoT Business Headquarters,

In charge of Robot Division and Robot System Mr. Akira Kunisaki

YASKAWA ELECTRIC

Corporate Vice President, General Manager, Robotics Division Mr. Masahiro Ogawa

ABB

President, Robotics & Discrete Automation business,

Member of the Group Executive Committee of ABB Ltd, Switzerland Mr. Sami Atiya

KUKA Deutschland CEO Mr. Klaus König

DENSO

General Manager of Production Engineering Department, Production Innovation Center

Mr. Keisuke Kawano

PALTAC

Executive Officer General Manager of Research & Development Division

Mr. Masakazu Mikita

Sanmei Mechanical

Representative Director Mr. Kazuo Kubota

Ministry of Economy, Trade and Industry

Director, Robotics Policy Office, Manufacturing Industries Bureau Mr. Takahiro Ishii

Moderator

Journalist Ms. Mariko Mikami



International Service Robot Forum Service robotics industry in Europe, Russia, and China

Date Dec.18 (Wed.)

Time 15:00~17:00

Number of Participants Approx. 400

Venue Main Stage, West Hall 4, Tokyo Big Sight

Organizers Japan Robot Association (JARA), THE NIKKAN KOGYO SHIMBUN

Simultaneous Interpretation

Director of Robotics, EUnited - European Engineering Industries Association

Mr. Patrick Schwarzkopf

Head of Sberbank Robotics Laboratory Executive President, China Robot Industry Alliance

Mr. Albert Yefimov Mr. Song Xiaogang

Regional Coordinator: Japan, Global NPO SprintRobotics

Dr. Michele Guarnieri

Robots are expected to play an active role in various fields. Experts from Europe, Russia, and China talked about the current situation of the service robotics industry in their country/area.









Mr. Patrick Schwarzkopf

Mr. Albert Yefimov

Mr. Song Xiaogang

Dr. Michele Guarnieri

The Robot Revolution and Industrial IoT International Symposium 2019 [Global tops Talk:Future Vision of Industrial IoT:Requirements and Approaches]

Date Dec.19 (Thu.)

Time 13:00~17:45

Number of Participants Approx. 800

Venue Reception Hall A · B, Conference Tower 1F, Tokyo Big Sight

Organizers Ministry of Economy, Trade and Industry/Robot Revolution & Industrial IoT Initiative

Simultaneous Interpretation

Welcoming Remarks

Deputy Director-General, Manufacturing Industries Bureau, Ministry of Economy, Trade and Industry Mr. Yoji Ueda

Speech1 "The path to the future vision of industrial IoT: the future of man and machine, and system approach"

Chairperson, Robot Revolution & Industrial IoT Initiative

Mr. Hideaki Omiya

Speech2 "New Strategic Developments in Germany and our bilateral Cooperation with

Deputy Director General, Federal Ministry for Economic Affairs and Energy

Mr. Markus Heß

Session1 "Future Vision in Globalized Community"

Keynote Speech1 "Robotics Innovation to Amplify People"

Vice President of Robotics, Toyota Research Institute Mr. Max Bajracharya

Keynote Speech2 "A new paradigm of human-machine collaboration"

Chairman of the Board of Trustees, acatech Prof. Dr. Henning Kagermann

Speech3 "Supporting human engineering activities by Digital Triplett"

Professor, The University of Tokyo Dr. Yasushi Umeda

Panel Discussion

Panelist Vice President of Robotics, Toyota Research Institute Mr. Max Bajracharya

Chairman of the Board of Trustees, acatech Prof. Dr. Henning Kagermann Professor, The University of Tokyo Dr. Yasuhi Umeda

Deputy Director General, Federal Ministry for Economic Affairs and Energy

Mr. Markus Heß

Moderator Director, Manufacturing Industries Policy Office, Manufacturing Industries Bureau,

Ministry of Economy, Trade and Industry Dr. Takeshi Nakano

Session2 "System approach in diverse perspectives"

Speech4 "IIC: Learning How to Build Industrial IoT Systems"

Chief Technical Officer. Industrial Internet Consortium Mr. Stephen Mellor

Speech5 "Sustainable Research Strategies for Smart Production Technologies"

Chairman of Research Council, Plattform Industrie 4.0 / TU Darmstadt

Prof. Dr. Reiner Anderl

Speech6 "A System Approach for Establishing a Trusted Data Sharing Architecture"

Deputy Chairman of the Board, International Data Spaces Association /

Fraunhofer institute ISST Prof. Dr. Boris Otto

Speech7 "Japan-Germany experts collaboration toward Industrial Revolution"

Chairman of International Standard AG, Robot Revolution & Industrial IoT Initiative /

The University of Tokyo Dr. Fumihiko Kimura

Panel Discussion

Panelist Chief Technical Officer, Industrial Internet Consortium Mr. Stephen Mellor

Chairman of Research Council, Plattform Industrie 4.0 / TU Darmstadt

Dr. Reiner Anderl

Deputy Chairman of the Board, International Data Spaces Association /

Fraunhofer institute ISST Dr. Boris Otto

| Moderator | Chairman of International Standard AG, Robot Revolution & Industrial IoT Initiative /

The University of Tokyo Dr. Fumihiko Kimura

Closing Remarks

Management Secretary, Robot Revolution & Industrial IoT Initiative Mr. Michitaka Nakatomi

NEDO Robot Al Forum 2019

Date Dec. 20 (Fri.)

Time 10:15~12:00

Number of Participants Approx. 500

Venue Main Stage, West Hall 4, Tokyo Big Sight

Organizer New Energy and Industrial Technology Development Organization (NEDO)

Simultaneous Interpretation

Opening Remarks

Executive Director, NEDO

Mr. Kivoshi Imai

Invited Lecture

President, Association for Advancing Automation

Mr. Jeff Burnstein

Specially-Appointed Professor, Osaka University

Mr. Minoru Asada

NEDO Pitches "The Ideas for 2020 that Will Lead NEDO Forward"

NEDO Robot and Artificial Inteligence Technology Department

Mr. Akimichi Kanadani / Mr. Mitsuru Sendouda / Mr. Atsushi Motegi / Mr. Kenji Wasada

Closing Remarks

Director General, Robot and Artificial Intelligence Technology Department

Mr. Shuji Yumitori

Germany-Japan Expert Forum - Industrie 4.0 / Connected Industries

Date Dec.20 (Fri.)

Time 13:00~15:30

Number of Participants Approx. 150

Venue Room 607/608, Conference Tower 6F, Tokyo Big Sight

Organizers Federal Ministry for Economic Affairs and Energy, Embassy of the Federal Republic of Germany Tokyo, German Chamber of Industry and Commerce in Japan, Germany Trade & Invest (GTAI)

Simultaneous Interpretation

Welcoming Remarks :

Deputy Director General, Federal Ministry for Economic Affairs and Energy

Mr. Markus Heß

13:10-13:20

Speech1 "Investing in Industrie 4.0 in Germany"

Germany Trade and Invest (GTAI)

Ms. Claudia Grüne

13:20-13:30

Speech2 | "Cloud and Data Sovereignty: GAIA-X, International Data Spaces and International Interoperability"

CEO of International Data Spaces Association

Prof. Dr. Boris Otto

Session1 IIoT -IT Security in international context

13:40-14:00

Speech3 "Standardization Roadmap Industrial Security: New Challenges and Opportunities"

Plattform Industrie 4.0 / Head of Security for Embedded Systems,

Industry4.0, IoT, Siemens Dr. Wolfgang Klasen

14:00-14:20

Speech4 "IIoT Security: The role of trustworthiness"

Industrial Security AG, RRI, Group Leader Engineer, Control System Engineering Department, Omika Works, Hitachi Mr. Tsutomu Yamada

Session2 IIoT - Standardization in international context

14:20-14:40

Speech5 "Standardization and B2B-Platforms Roadmap Industrie 4.0"

Plattform Industrie 4.0 / Senior Principal Key Expert Engineer, Siemens

Dr. Ulrich Löwen

14:40-15:00

Speech6 "Joint White Paper: Revitalizing Human-Machine Interaction for the Advancement of Society"

Chairman of International Standard AG, RRI / The Univ. of Tokyo

Prof. Fumihiko Kimura

Session3 Where to go from here? Discussion Panel on Future Cooperation of Industrie 4.0 / Connected Industries

15:00-15:20

Panelist CEO of International Data Spaces Association Prof. Dr. Boris Otto

Chairman of International Standard AG, RRI / The Univ. of Tokyo

Prof. Fumihiko Kimura

Plattform Industrie 4.0 / Senior Principal Key Expert Engineer, Siemens

Dr. Ulrich Löwen

Plattform Industrie 4.0 / Head of Security for Embedded Systems,

Industry4.0, IoT, Siemens Dr. Wolfgang Klasen

Industrial Security AG, RRI, Group Leader Engineer, Control System Engineering Department, Omika Works, Hitachi Mr. Tsutomu Yamada

Moderator Minister Counsellor for Economic and Scientific Affairs at the German Embassy

Ms. Susanne Welter

15:20

Closing Remarks

Deputy Director General, Federal Ministry for Economic Affairs and Energy Mr. Markus Heß



Special Exhibition Zone

THE 8TH ROBOT AWARD Joint Exhibition

Venue West Hall 4, Tokyo Big Sight

Organizers Ministry of Economy, Trade and Industry / Japan Machinery Federation

Joint Exhibition of the companies that won the 8th Robot Award





World Robot Summit Trial Challenge 2019

Venue South Hall 4, Tokyo Big Sight

Organizers Ministry of Economy, Trade and Industry /

New Energy and Industrial Technology Development Organization (NEDO)

Prior to WRS2020, some competitions trial has been held. The robots competed speed and correctness for assembling parts which are vary in size from small to large on Assembly Challenge. The participants competed robotics technology working with people in a store such as Stock and Disposal, Customer Interaction and Restroom Cleaning on Future Convenience Store Challenge.





Hands-on International Robot Exhibition

Venue Main Stage, West Hall 4 / South Seminar Room, Tokyo Big Sight

■ 『WATER ROBOTICS Zone』 『FOOD ROBOTICS Zone』 『DMM.make AKIBA Zone』 Supported by: ROBO Ia NIGHT, Matsuyama Industry, DMM.make AKIBA,

FUJITSU Knowledge Integration Base PLY, AFK laboratory, Morirobo, Ms. Mako Miyatake





















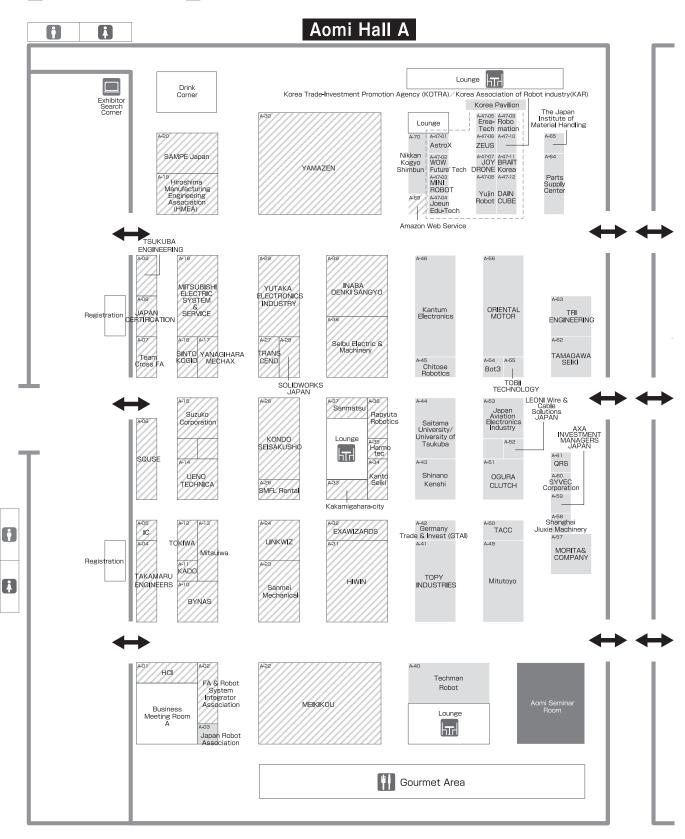


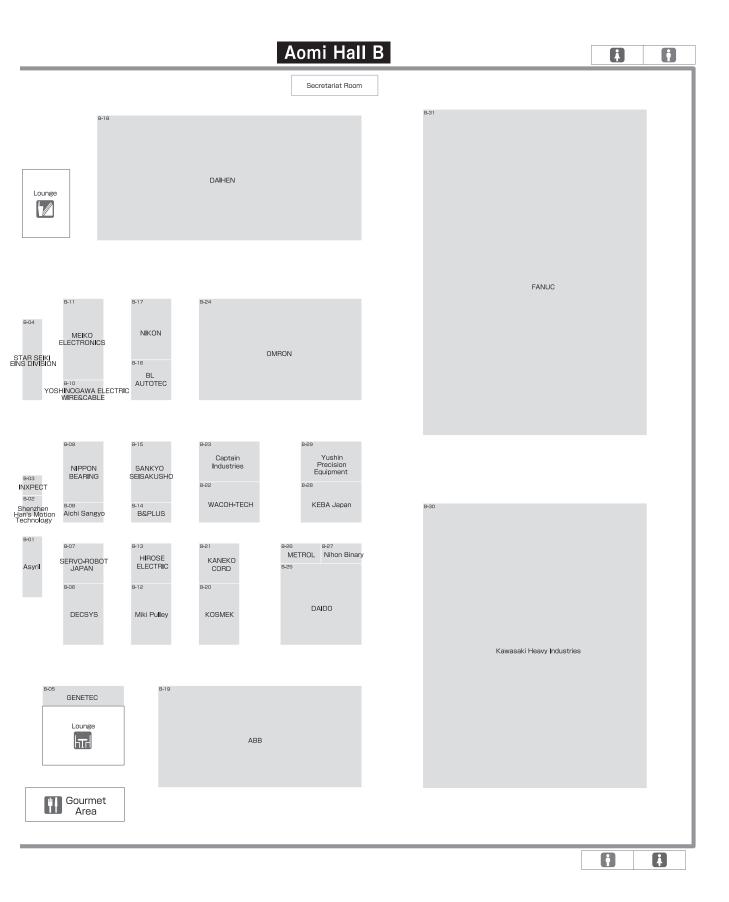




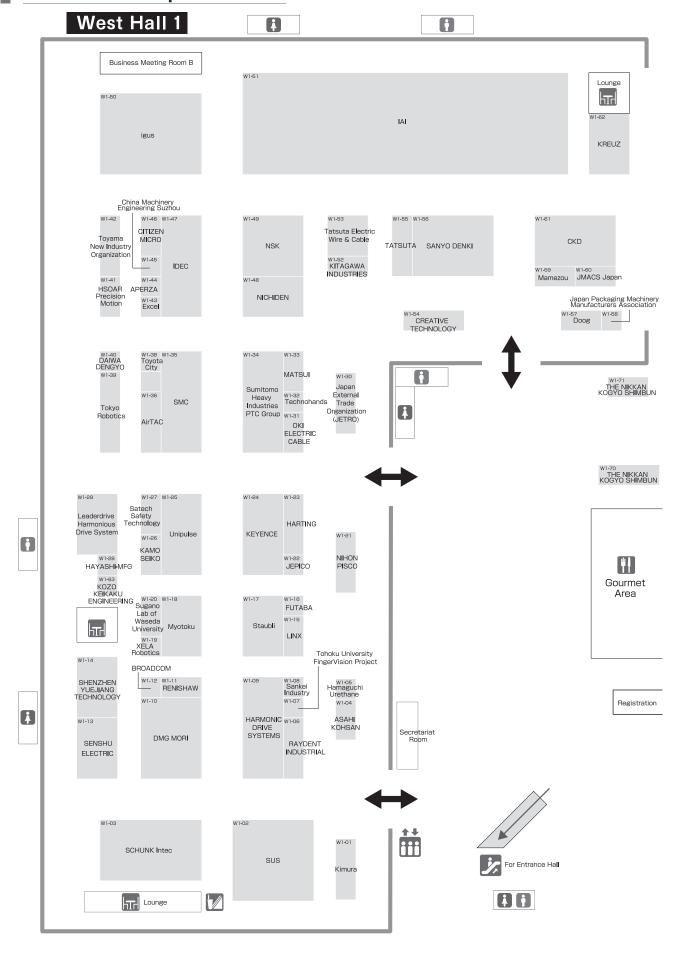
Aomi Hall MAP

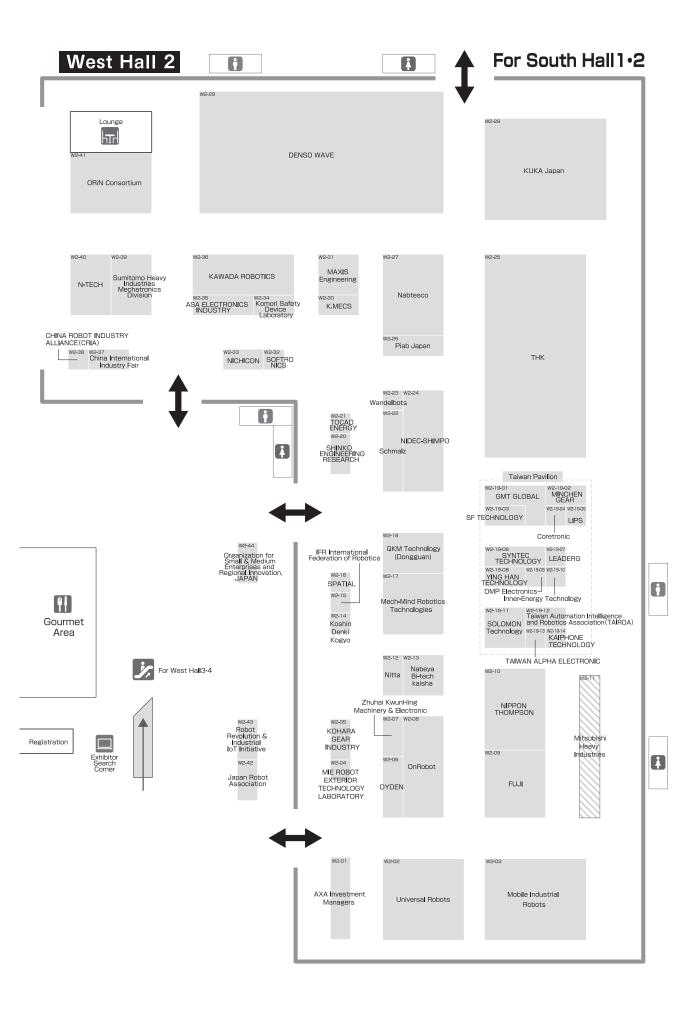
Industrial Robot Zone Robot System Integrator Zone





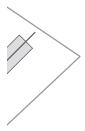
West Hall Map (Floor 1) ☐ Industrial Robot Zone ☐ Service Robot Zone





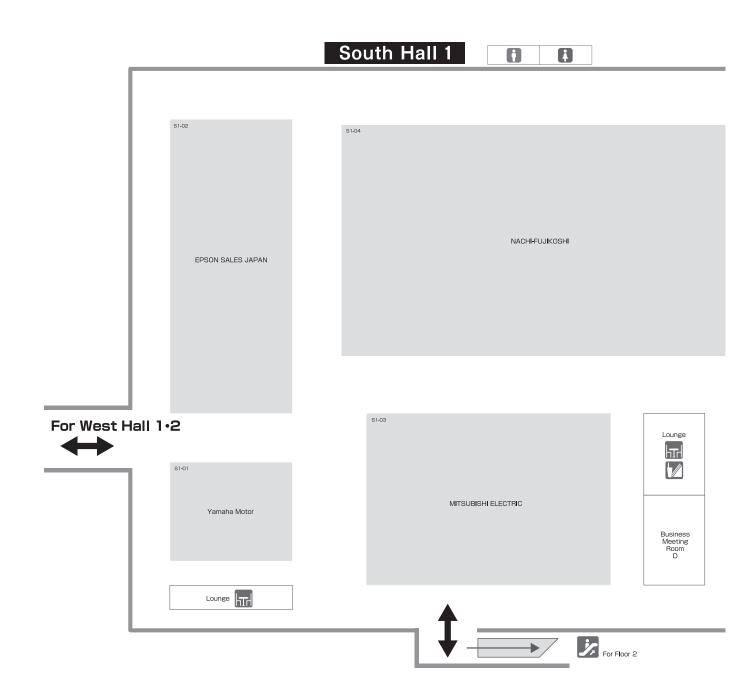
West Hall Map (Floor 4) A A Industrial Robot Zone Robot Simulation & Vision System Zone Service Robot Zone Kanagawa Robot Innovation/ Monozukuri Pavillion with Kanagawa Parts Feeder Exhibition THE 8TH ROBOT AWARD Shimizu Laboratory, Kobe City College of Technology Hangzhou Seenpin Robot Technology Genesis Robotics and Motion Technologies GUNMA INDUSTRY Minebea Mitsumi SUPPORT ORGANIZATION OZAK SEIKO NEWS DIGEST PUBLISHING w4-26 Amphenol Industrial W4-24 SANYU INDUSTRIES Trelleborg Sealing Solutions Japan W4-37 Changzhou FTX Motors W4-13 ZIPPERTUBING (JAPAN) Ascent Roboticis W4-08 Interface Rohde&Schwarz W4-11 CORPORATION W4-06 CADMAC Datalogic SHOYOSEIKI Vision Components W3-44 W3-43 FUJIFILM ws-42 SPI ENGINEERING SOLOMON Tech Exliteron Lounge JOHNAN 4 hтН IDS Imaging West Hall3 JBM TS NANOCOAT Manufacturing Expo | Siemens Digital Industries Software Zivid ASTECNOS W3-33 8 Zhejiang Laifual Harmonic Drive W3-23 W3-22 Obu City Schmersal Mitsubishi HUILING-TECH ROBOTIC W3-18 W3-17 KOFUSEIBYO TAKUMI PEPPERL+ FUCHS ITmedia W3-12 i Japan Parts Feeder Industrial Association Sanki Japan Association for Automation Advancement Registration | W3-11 | W3-10 | W3-07 | Nomura | Flating | NITTOKU | W3-09 | W3-08 | KOSEI W3-06 W3-05 SHOWA AIRCRAFT INDUSTRY KANTO ELECTRONICS Parts Feeder Exhibition MURATA SEIKO NTN Technical Service HIH Business Meeting Room C

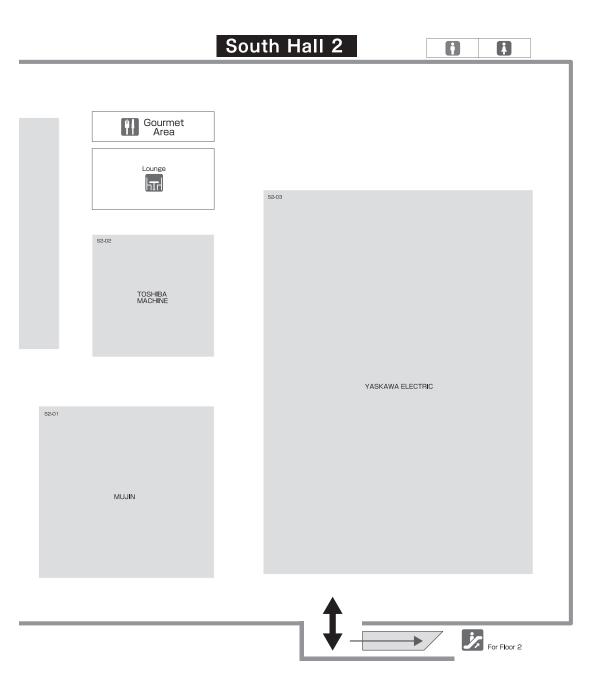
West Hall 4 For South Hall 3.4 Kanagawa Robot Innovation/ Monozukuri Pavillion with Kanagawa Amorphology Gimatic Japan Syrius Robotics Sumitomo Shoji Machinex Sagamihara City NABELL w4-20 Rozetta GUANGDONG JATEN ROBOT& AUTOMATION W4-03 W4-02 Piezo Sonic MITSUBISHI ELECTRIC TOKKI SYSTEMS W4-05 W4-04 TNK Sanwa SEISAKUSHO Precision For West Hall 1-2



South Hall Map (Floor 1)

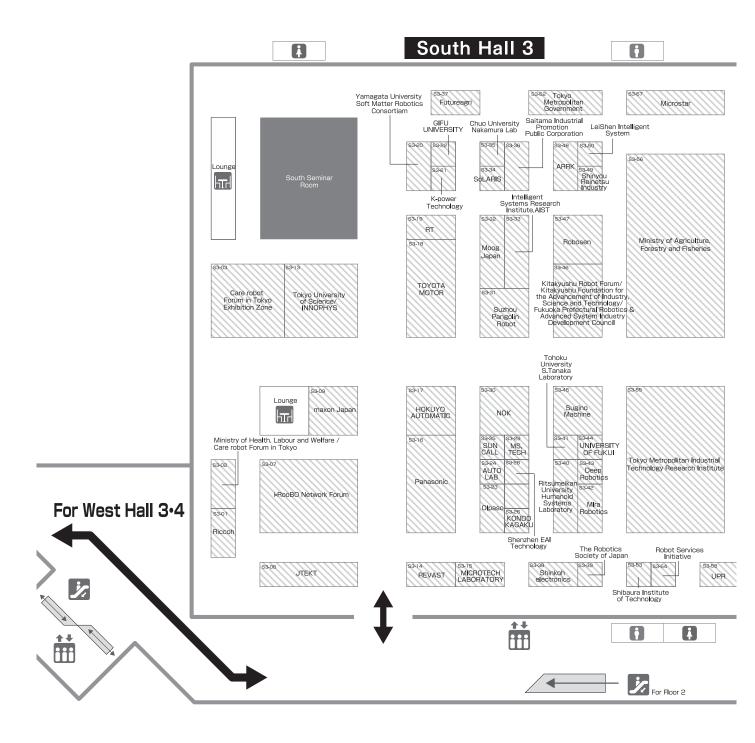
Industrial Robot Zone

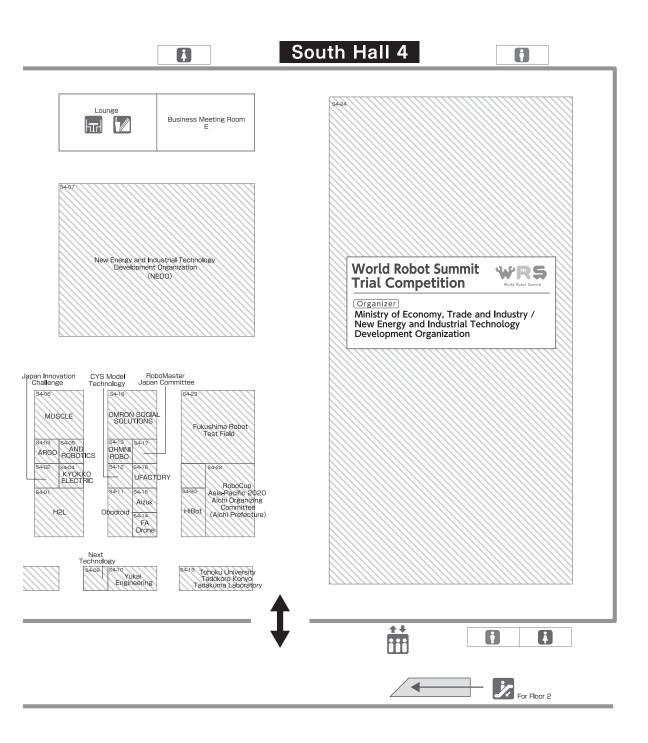




South Hall Map (Floor 4)

Service Robot Zone







List of Exhibitors *co-exhibitor

B-19	Δomi	ABB	\$4-23	South	*Space Entertainment	W2-42	West	Japan Robot Association	B-12	Δomi	Miki Pulley
B-08		Aichi Sangyo	04-20	Journ	Laboratory	W4-39		Japan-Korea Industrial Technology	W4-25		MinebeaMitsumi
B-08	Aomi	※Magswitch Technology	\$4-23	South	*SpaceOne			Co-Operation Foundation	S3-56		Ministry of Agriculture,
W1-36		AirTAC	W1-16		FUTABA	W3-38		JBM Engineering			Forestry and Fisheries
\$4-15		Aizuk	S3-37		Fututreagri	W1-22		JEPICO	S3-56	South	
A-69 W4-19		Amazon Web Services	W4-33	West	Genesis Robotics and Motion	W1-60 W3-40		JMACS Japan JOHNAN	S3-56	C = . 4h	Engineering, NARO
W4-19 W4-26		Amorphology Amphenol Industrial	B-05	Aomi	Technologies GENETEC	S3-06		JTEKT	53-50	South	※Institute of Agricultural Machinery, NARO
S4-05		ANDROBOTICS	A-42		Germany Trade & Invest (GTAI)	W2-30		K.MECS	S3-56	South	*Nileworks
W1-44		Aperza	S3-22		GIFU UNIVERSITY	A-11		KADO	S3-56	South	*OPTiM
S4-03	South	ARGO	W4-23	West	Gimatic Japan	A-33	Aomi	Kakamigahara-city	S3-56	South	*Panasonic
S3-48		ARRK	W4-15	West	GUANGDONG JATEN ROBOT&	A-33	Aomi		S3-56	South	%Power Assist International
W2-35		ASA ELECTRONICS INDUSTRY			AUTOMATION			integrator cooperative	S3-56	South	*Ritsumeikan University •
W1-04		ASAHI KOHSAN	W4-34	West	GUNMA INDUSTRY SUPPORT	4.00	A	association	00.50	C = . 4h	Osada Farm Machinery
W4-09 W3-27		Ascent Robotics ASTECNOS	W4-34	West	ORGANIZATION **Nihon Charvely Kiloi	A-33 A-33	Aomi Aomi	<pre>%FIT %NIKKO AUTOME</pre>	\$3-56 \$3-56	South South	**SANYO KIKI **SHIBUYA SEIKI
B-01		ASTECNOS	W4-34 W4-34	West	%Nihon Shoryoku Kikai %Ohmichi	W1-26	West	KAMO SEIKO	\$3-56	South	*The Japan Research Institute
W3-23		ATEC	W4-34	West	*Sanko Industrial Automation	B-21	Aomi	KANEKO CORD	S3-56	South	·
S3-24		AUTOLAB	W4-34	West	*System Seiko	A-34	Aomi		00 00	Codiii	Consortium
A-59	Aomi	AXA INVESTMENT MANAGERS	W4-34	West	*Takano	A-46	Aomi	Kantum Electronics	\$3-56	South	*Utsunomiya University
		JAPAN	W4-34	West	**Ueno Technica	A-46	Aomi	*ITOCHU MACHINE	S3-02	South	Ministry of Health, Labour and
W2-01	West	AXA INVESTMENT MANAGERS	\$4-01	South				TECHNOS			Welfare/Care robot Forum in
		JAPAN	W1-05		Hamaguchi Urethane	W3-14		KASAI TECHNO			Tokyo
B-14		B&PLUS	W4-36	West	Hangzhou Seenpin Robot	W2-36		KAWADA ROBOTICS	S3-42		Mira Robotics
W4-16		Bit Trade One	11/4 00	147	Technology	B-30		Kawasaki Heavy Industries	W3-20		Mitsubishi
B-16 A-54		BL AUTOTEC Bot3	W1-09 A-35		HARMONIC DRIVE SYSTEMS Harmotec	B-28 W1-24		KEBA Japan KEYENCE	S1-03 W4-02		MITSUBISHI ELECTRIC MITSUBISHI ELECTRIC TOKKI
W1-12		BROADCOM	W1-23		HARTING	W1-24		Kimura	W4-02	WOOL	SYSTEMS
A-10		BYNAS	W1-28		HAYASHI-MFG	W1-52		KITAGAWA INDUSTRIES	W2-11	West	Mitsubishi Heavy Industries
W3-46		CADMAC	A-01	Aomi		S3-46		Kitakyushu Robot Forum/	A-18		MITSUBISHIELECTRIC
B-23	Aomi	Captain Industries	A-01	Aomi	*AIT			Kitakyushu Foundation for the			SYSTEM & SERVICE
S3-03	South	Care robot Forum in Tokyo	A-01	Aomi	*COEI SYSTEM			Advancement of Industry, Science	A-13	Aomi	Mitsuiwa
		Exhibition Zone	A-01	Aomi	*Yuden			and Technology	A-13	Aomi	*BYNAS
W3-28		CENIT JAPAN	\$4-20		HiBot	S3-46	South		A-49		Mitutoyo
W4-37		Changzhou FTX Motors	W3-26		Higuchi Kousakusyo			Synthesis, Kyushu Institute of	W2-03		Mobile Industrial Robots
W2-37		China International Industry Fair	B-13		HIROSE ELECTRIC	00.40		Technology	S3-32		Moog Japan
W2-37	West	*Shanghai Robot Industry	A-19	Aomi	Hiroshima Manufacturing	S3-46 S3-46	South		A-57		MORITA&COMPANY
W1-45	Wort	Association China Machinery Engineering	A-19	Aomi	Engineering Association(HMEA) **Energia Communications	53-40	South		\$3-29 \$2-01		MS.TECH MUJIN
W1-45	MESI	Suzhou	A-19 A-19	Aomi	**Heiwa Joho System	S3-46	South		S4-06		MUSCLE
W2-38	West	CHINA ROBOT INDUSTRY	A-19	Aomi	*Hi-Elecom	30-40	Journ	NONDESTRUCTIVEINSPECTION	W1-18		Myotoku
WE 00	11000	ALLIANCE	A-19	Aomi	*HIROTEC	W3-15	West	KOFUSEIBYO	W4-22		NABELL
A-45	Aomi	Chitose Robotics	A-19	Aomi	*ICHIKAWA	W2-05	West	KOHARA GEAR INDUSTRY	W2-13	West	Nabeya Bi-tech Kaisha
S3-35	South	Chuo University Nakamura Lab	A-19	Aomi	*Interface	W2-34	West	Komori Safety Device Laboratory	W2-27	West	Nabtesco
W1-46	West	CITIZENMICRO	A-19	Aomi	*KEYLEX	S3-26	South	KONDO KAGAKU	S1-04	South	NACHI-FUJIKOSHI
W1-61		CKD	A-19	Aomi	*NIITECH	A-26			S4-07	South	New Energy and Industrial
W1-61	West	*CKD NIKKI DENSO	A-19	Aomi	*Office FA.com	A-47-10	Aomi				Technology Development
W3-45		CMS	A-31		HIWIN			Agency (KOTRA)/Korea	W4 00	Mr. at	Organization
W4-32 W1-54		Coreless motor CREATIVE TECHNOLOGY	S3-17 W1-41		HOKUYO AUTOMATIC HSOAR Precision Motion			Association of Robot industry (KAR)	W4-38 S4-08		NEWS DIGEST PUBLISHING Next Technology
W3-35		CreativeMachine	W3-18		HUILING-TECH ROBOTIC	A-47-01	Aomi	*AstroX	W2-33		NICHICON
S4-12		CYS Model Technology	W1-51	West		A-47-01	Aomi	**BRAIT Korea	W1-48		NICHIDEN
B-25		DAIDO	A-05	Aomi		A-47-12	Aomi	**DAINCUBE	W2-24		NIDEC-SHIMPO
B-18	Aomi	DAIHEN	W4-12	West	iC Haus/Techtuit	A-47-05	Aomi	*Erea-Tech	B-27	Aomi	Nihon Binary
W3-37	West	DAISHIN-GIKEN	W4-12	West	%iC Haus	A-47-04	Aomi	#Joeun Edu-Tech	W1-21	West	NIHON PISCO
W1-40		DAIWA DENGYO	W1-47		IDEC	A-47-07	Aomi	**JOY DRONE	B-17		NIKON
W4-07		Datalogic	W1-47	West	*IDEC FACTORY SOLUTIONS	A-47-03	Aomi		B-09		NIPPON BEARING
B-06		DECSYS	W3-36		IDS Imaging	A-47-09	Aomi	*Robomation	W2-10		NIPPON THOMPSON
\$3-43		DeepRobotics DENSO WAVE	W2-15	West	IFR International Federation of	A-47-02	Aomi	*WOW Future' Tech	W2-12		Nitta NOK
W2-29 W3-24		DM Card Japan	W1-50	West	Robotics	A-47-08 A-47-06	Aomi Aomi	XYujin Robot ZEUS	\$3-30 \$3-30	South	
W1-10		DMG MORI	A-39		INABA DENKI SANGYO	W2-14	West		W1-49		NSK
W1-57		Doog	S3-13		INNOPHYS	B-20	Aomi	KOSMEK	W2-40		N-TECH
W2-06		DYDEN	\$3-33		Intelligent Systems Research	W1-63		KOZO KEIKAKU ENGINEERING	W4-35		NTS
S1-02	South	EPSON SALES JAPAN			Institute, AIST	S3-21	South	K-power Technology	S4-11	South	Obodroid
S1-02	South		W4-08		Interface	W1-62		KREUZ	W3-22		Obu City
W4-17		E-T-A Components	B-03		INXPECT	W2-28		KUKA Japan	A-51		OGURA CLUTCH
W4-31		Eureka Robotics	S3-07		i-RooBo Nework Forum	\$4-04		KYOKKO ELECTRIC	W3-30		OHM ELECTRIC
A-32		EXAWIZARDS	S3-07	South		W1-29	West	Leaderdrive Harmonious Drive	\$4-13		OHMNIROBO
W1-43 W3-41		Excel Exliteron	S3-07	South	Government **KURABO	S3-50	Courth	System LeiShen Intelligent System	W1-31 S3-23		OKI ELECTRIC CABLE Olpaso
S4-14		FADrone	S3-07	South	**ToyoRiki	A-52		LEONI Wire & Cable Solutions	B-24		OMRON
B-31		FANUC	S3-07	South	*Vstone	71 02		JAPAN	S4-18		OMRON SOCIAL SOLUTIONS
W2-09		FUJI	W3-13		Itmedia	A-24	Aomi	LINKWIZ	W2-08		OnRobot
W4-05		FUJI SEISAKUSHO	A-53		Japan Aviation Electronics	W1-15		LINX	A-56		ORIENTAL MOTOR
W3-43		FUJIFILM			Industry	W1-59		Mamezou	W2-41	West	ORiN Consortium
S3-46	South	Fukuoka Prefectural Robotics	A-08		JAPAN CERTIFICATION	W3-34		Manufacturing Expo	W4-27		OZAK SEIKO
		& Advanced System Industry	A-08	Aomi	*The Institute of Global Safety	W1-33		MATSUI	S3-16		Panasonic
~~		Development Council	,,,,,,	W.	Promotion	W2-31		MAXIS Engineering	A-64		Parts Supply Center
S3-46	South		W1-30	West	Japan External Trade	S3-09		maxon Japan	A-64	Aomi	*Xiamen Wain Electrical
S3-46 S3-46	South South		A-02	Aomi	Organization(JETRO) Japan Factory Automation	W2-17 A-22		Mech-Mind Robotics Technologies MEIKIKOU	W3-16 W2-26		PEPPERL+FUCHS Piab Japan
\$3-46 \$4-23		Fukushima Robot Test Field	A-02	AUIIII	& Robot System Integrater	A-22 B-11		MEIKO ELECTRONICS	W4-03		Piezo Sonic
\$4-23	South	*EXT ENGINEER			Association	B-11		METROL	W2-18		QKM Technology (Dongguan)
\$4-23	South	*FaBo	\$4-02	South	Japan Innovation Challenge	S3-57		Microstar	A-61		QRS
\$4-23	South	*IGMA	W1-58		Japan Packaging Machinery	S3-15		MICROTECH LABORATORY	A-36		Rapyuta Robotics
\$4-23	South	**Japan Atomic Energy Agency			Manufacturers Association	W2-04	West	MIE ROBOT EXTERIOR	W1-06		RAYDENT INDUSTRIAL
\$4-23	South	*Prodrone	A-03	Aomi	Japan Robot Association			TECHNOLOGY LABORATORY	W1-11	West	RENISHAW

02.14	Carab	DEVACE	A-06	A	COLICE
S3-14		REVAST			SQUSE
S3-01		Riccoh	B-04		STAR SEIKI EINS DIVISION
S3-40	South	Ritsumeikan University Humanoid	W1-17		Staubli
00.40		Systems Laboratory	W1-20		Sugano Lab of Waseda University
S3-40	South		S3-45		Sugino Machine
S3-40	South		W2-39	West	Sumitomo Heavy Industries
S4-22	South	RoboCup Asia-Pacific 2020			Mechatronics Division
		Aichi Organizing Committee	W1-34	West	Sumitomo Heavy Industries PTC
S4-17		RoboMaster Japan Committee			Group
S3-47		Robosen	W4-01		Sumitomo Shoji Machinex
W2-43	West	Robot Revolution & Industrial IoT	S3-25		SUNCALL
		Initiative (RRI)	S3-25	South	00-
S3-54		Robot Services Initiative	W1-02	West	SUS
W4-06		Rohde&Schwarz	S3-31	South	Suzhou Pangolin Robot
W4-20	West	Rozetta	S3-31	South	
S3-19	South	RT	A-15	Aomi	Suzuko Corporation
W4-18	West	Sagamihara City	W4-21	West	SyriusRobotics
W4-16	West	Sagamihara Robot Business	A-60	Aomi	SYVEC Corporation
		Conference	A-50	Aomi	TACC
W4-16	West	※Aichi Sangyo	W2-19-12	West	Taiwan Automation Intelligence
W4-16	West	*Board Planning			and Robotics Association
W4-16	West	%F-Design			(TAIROA)
W4-16	West	*Media Robo Tech	W2-19-04	West	*Coretronic
W4-16	West	*MEMO Technos	W2-19-09	West	*DMP Electronics
W4-16	West	**00SAWA INDUSTRY	W2-19-01	West	**GMT GLOBAL
W4-16	West	Stella Robot Technology	W2-19-10	West	*Inner-Energy Technology
S3-36	South	Saitama Industrial Promotion	W2-19-14	West	*KAIPHONE TECHNOLOGY
		Public Corporation	W2-19-07	West	*LEADERG
A-44	Aomi	Saitama University	W2-19-05	West	**LIPS
A-20		SAMPE Japan	W2-19-02	West	
A-20	Aomi	*ACM	W2-19-03	West	
A-20	Aomi	*Econology Brain	W2-19-11	West	
A-20	Aomi	**GRAPHITE DESIGN	W2-19-06	West	
A-20	Aomi	**HANYUDA	W2-19-13	West	
A-20	Aomi	*Shinhokoku Steel		*******	ELECTRONIC
A-20	Aomi	**SUNWA TRADING	W2-19-08	West	*YING HAN TECHNOLOGY
A-20	Aomi	*TISM	A-04		TAKAMARU ENGINEERS
A-20	Aomi	*TOKYO R&D Composite	W3-17		TAKUMI
A-20	AUIIII	Industry	A-62		TAMAGAWA SEIKI
W1-08	Wort	Sankei Industry	W1-55		TATSUTA
W4-14		SANKEI MANUFACTURING	W1-53		Tatsuta Electric Wire & Cable
B-15		SANKYO SEISAKUSHO	W1-53	West	
A-37		Sanmatsu	W 1-33	MACOL	WIRE CABLE
A-37 A-23			W1-53	West	
		Sanmei Mechanical			Team Cross FA
W1-56		SANYO DENKI	A-07		
W4-24 W1-27		SANYU INDUSTRIES	A-07 A-07	Aomi Aomi	*FA Products
		Satech Safety Technology			
W2-22		Schmalz	A-07	Aomi	
W3-21		Schmersal Japan	A-07	Aomi	*Robotcom
W1-03		SCHUNK Intec	A-40		Techman Robot
A-38		Seibu Electric & Machinery	W1-32		Technohands THE 8TH ROBOT AWARD
W1-13		SENSHU ELECTRIC	W4-40		
W1-13	West	*NBS	A-65	Aomi	The Japan Institute of Material
B-07		SERVO-ROBOT JAPAN	=0 =4		Handling
A-58		Shanghai Jiuxie Machinery	W1-70,71		THE NIKKAN KOGYO SHIMBUN
S3-28		Shenzhen EAI Technology	S3-39		The Robotics Society of Japan
B-02	Aomi		W2-25		THK
		Technology	W4-04		TNK Sanwa Precision
W1-14	West	SHENZHEN YUEJIANG	A-55		TOBII TECHNOLOGY
		TECHNOLOGY	W2-21		TOCAD ENERGY
W1-14	West	*ECOGUARD MACHINE	W1-07	West	Tohoku University FingerVision
		PROTECTION			Project
W1-14	West	**JIANGSU HAUTO NC	S3-41	South	Tohoku University S.Tanaka
		TECHNOLOGY			Laboratory
S3-53		Shibaura Institute of Technology	S4-19	South	Tohoku University Tadokoro
W4-30	West	Shimizu Laboratory, Kobe City			Konyo Tadakuma Laboratory
		College of Technology	A-12		TOKIWA
A-43		Shinano Kenshi	A-12	Aomi	※TOKIWA System Technologies
W2-20	West	SHINKO ENGINEERING	W3-25	West	Tokyo Measuring Instruments
		RESEARCH			Laboratory
S3-38	South	Shinkoh electronics	\$3-55	South	Tokyo Metropolitan Industrial
\$3-49	South	Shinyou Reinetsu Industry			Technology Research Institute
W4-11	West	SHOYOSEIKI	S3-52	South	Tokyo Robot Collection / Tokyo
W3-29	West	Siemens Digital Industries			Metropolitan Government
		Software	W1-39	West	Tokyo Robotics
A-16	Aomi	SINTOKOGIO	S3-13	South	Tokyo University of Science
W2-44	West	Small and Medium-sized	A-41	Aomi	TOPY INDUSTRIES
		Organization Overseas Expansion	S2-02		TOSHIBA MACHINE
		Consultation Corner	W4-10		TOWA CORPORATION
W1-35	West	SMC	W1-42		Toyama New Industry
A-25		SMFL Rental			Organization
W2-32		SOFTRONICS	W1-42	West	*KOIZUMI
S3-34		Solaris	W1-42	West	
S3-34	South		W1-42	West	
A-28		SOLIDWORKS JAPAN		. 501	RESEARCH MEETING
W3-39		SOLOMON Technology	W1-42	West	
W2-16		SPATIAL	W1-38		Toyota City
W3-42		SPI ENGINEERING	S3-18		TOYOTA MOTOR

A-27	Aomi	TRANSCEND
W4-28	West	Trelleborg Sealing Solutions
		Japan
A-63	Aomi	TRI ENGINEERING
W3-32	West	TS NANOCOAT
A-09	Aomi	TSUKUBA ENGINEERING
A-14	Aomi	UENOTECHNICA
S4-16	South	UFACTORY
W1-25	West	Unipulse
W1-25	West	**ROBOTEC
		Universal Robots
W2-02	West	UNIVERSITY OF FUKUI
S3-44	South	**THE WAKASA WAN
S3-44	South	ENERGY RESEARCH CENTER
A-44	Aomi	University of Tsukuba
S3-58	South	UPR
W3-44	West	VisionComponents
B-22	Aomi	WACOH-TECH
W2-23	West	Wandelbots
S4-24	South	World Robot Summit
W1-19	West	XELA Robotics
S3-20	South	Yamagata University Soft Matter
		Robotics Consortiam
S1-01	South	YAMAHA MOTOR
A-30	Aomi	YAMAZEN
A-17	Aomi	YANAGIHARA MECHAX
S2-03	South	YASKAWA ELECTRIC
B-10	Aomi	YOSHINOGAWA ELECTRIC
		WIRE&CABLE
S4-10	South	Yukai Engineering
B-29	Aomi	Yushin Precision Equipment
A-29	Aomi	YUTAKA ELECTRONICS
		INDUSTRY
W3-33	West	Zhejiang Laifual Harmonic Drive
W2-07	West	Zhuhai KwunHing Machinery &
		Electronic
W4-13	West	ZIPPERTUBING(JAPAN)
W3-31	West	Zivid
W3-31	West	*Micro-Technica

Kanagawa Robot Innovation/ Monodzukuri Pavillion with Kanagawa West A · R · P West Aoyama Precision Industry West Atsugi City West **Atsugi City Robot Industrial Promotion Council West ATSUMO (Atsugi Monodukuri Brand Prp) West Columbus-seiki West Computer Institute of Japan ****ASAI ENGINEERING** West DOUBLE Research and Development West iXs West Kanagawa Institute of Industrial Science and Technology West Kanagawa Prefectural Council for Promoting Business and Industrial Establishment West Kanagawa Prefectural Government W4-41-14 W4-41-11 West KAWASAKI BUSINESS West INCUBATION CENTER KAWASAKI ROBOT FESTIVAL West KeioUniversity Haptics research Center West KOWATECH W4-41-21 W4-41-08 W4-41-15 W4-41-04 W4-41-23 W4-41-18 W4-41-16 W4-41-01 West MEMO Technos West OGAWA YUKI West PAIONIA FURYOKUKI West robotyuenchi West SAGAMI CHEMICAL METAL West TeleBusiness West The Fujisawa Chamber of Commerce & Industry W4-41-01 W4-41-01 W4-41-01 W4-41-01 W4-41-01 W4-41-07 W4-41-07 West *Amoeba Energy

*Moldtec

*Nikko-Kenma **SAIMA CORPORATION **TAKAI SEIKI

West

West West West VECTOR West Yokohama Denshi West Yokohama Factory

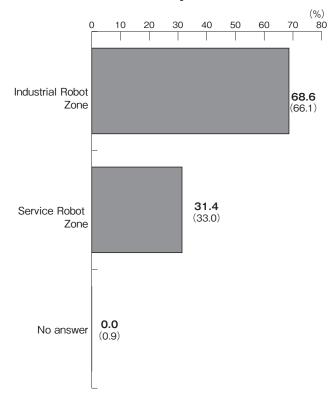


Visitor Statistics

*Parentheses are of 2017

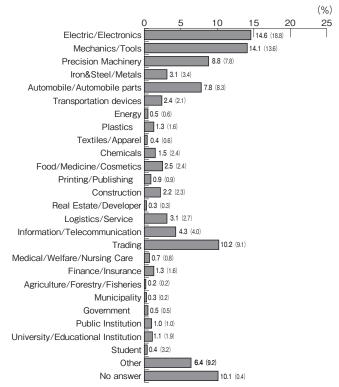
Q.1

Which robot Zone are you interested in?



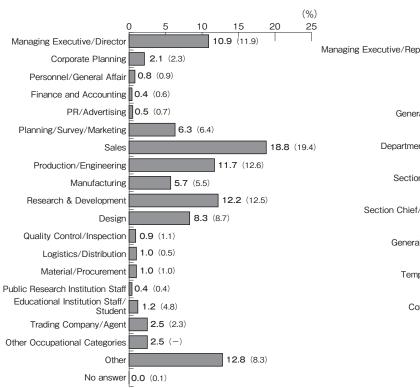
Q.2

Which industry are you involved in?

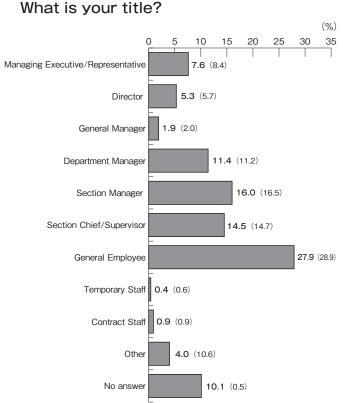


Q.3

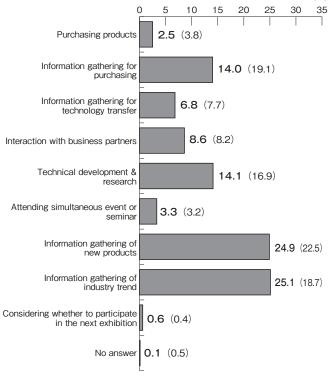
What is your occupation?



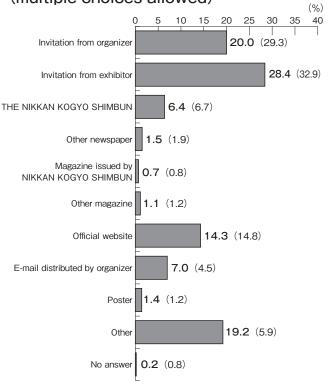
Q.4



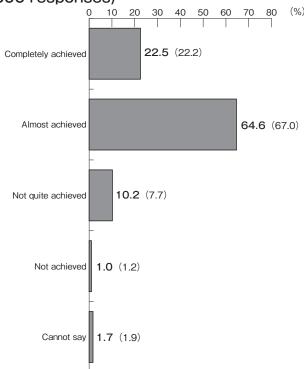
Q.5
What is your purpose of the visit to this exhibition? (multiple choices allowed) (%)



Q.6 How did you know this exhibition? (multiple choices allowed)



Q.7
Were you able to achieve your purpose of visit? (600 responses)





Major Public Relations

Transport Advertising



Shinagawa Station (JR), AD Vision (Dec. 9-15, 2019)



YURIKAMOME, AD Vision (Nov. 25-Dec. 15, 2019)



JR Yamanote Line / Tokyo Metro all lines, AD Vision (Dec. 9-15, 2019)

WEB Banner Advertising

[Yahoo] Yahoo NEWS

[Yahoo] Asahi Shimbun Digital

[Google] Nikkei XTECH

(Google) Walker

MarkLines etc.

Press Presentation

Nov.19 (Tue.), 2019 @Tokyo Prince Hotel



Maior Media Visits Media Visits 216

Asahi Shimbun

Associated Press

ARD German TV Network

Bloomberg

Deutsche Welle

european pressphoto agency

Fuji Television

Financial Times

Global Press

Ihlas News Agency

KSPN

Kyodo News

Mainichi Newspapers

mediacorp

NHK

Nikkei BP

Nikkei Shimbun

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Nippon Television

REUTERS NEWS & MEDIA JAPAN

Robonews.net

RUSSIA SEGODNYA

SANKEI SHIMBUN

TBS TV

The Japan Times

TV Asahi

Τν τοκγο

Yahoo! JAPAN

Yomiuri Shimbun

Major Publicity Media

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Channel News Asia

Fuji Television

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Nippon Broadcasting

Nippon Television

TBS TV

TOKYO MX

TV Asahi

TV TOKYO

[Newspapers]

NIKKAN KOGYO SHIMBUN

Nikkei

The Japan Times

Yomiuri Shimbun

[WEB News]

FNN-news.com

HUFFPOST

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livedoor NEWS

msn NEWS

NewsPicks

NHK NEWS WEB

Nikkei Business

Nikkei XTECH

ORICON NEWS
TV Asahi NEWS

etc. Yahoo! NEWS

etc.





最先端ロボット技術の祭典 過去最大規模で開催



今日の講演・フォーラム Today's Lecture and Forum

10 ; 30 12 : 00	Tokyo Robot Collection 未来は東京で創られる	西4ホール内 メインステージ	東京都
15;00	(JESSHEE) IREXロボットフォーラム2019 「ロボットはバートナー 変わりつつある働く現場」	会議権7階 国際会議場	日本ロボット工業会、 日刊工業新聞社
17:00	IREX Robot Forum 2019 "Robots as human partners - in the changing workplaces"	International Conference Room, Carrierence Tower 7F	Japan Robet Association (JAPA) / THE NIOCAN KOGYO SHIMBUN







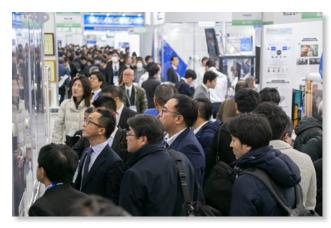




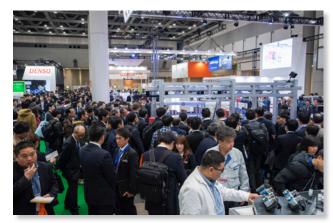


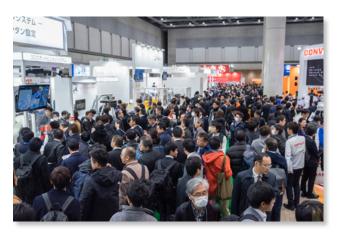
Photographs



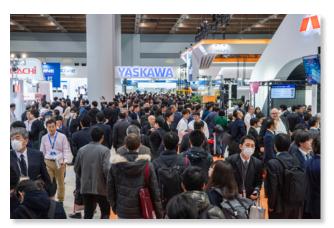


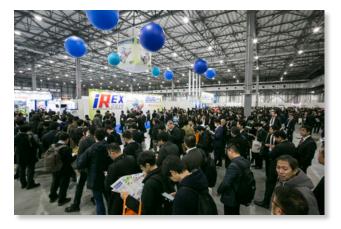




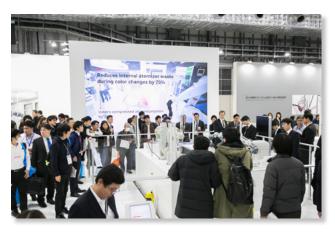


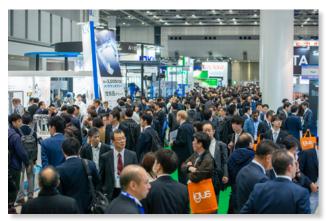


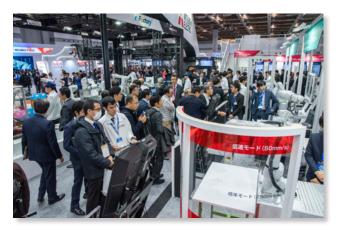








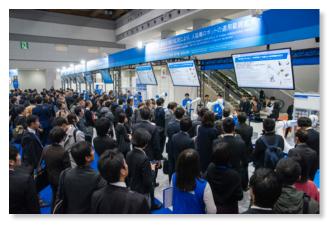












Next Show Schedule

iREX2021

(INTERNATIONAL ROBOT EXHIBITION 2021)

- Early December, 2021
- Tokyo Big Sight East Halls

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Email: info-irex@media.nikkan.co.jp