



RoboCup
LEIPZIG
GERMANY **2016**
30 JUNE to 4 JULY

LEIPZIG – BEST PLACE FOR ROBOTS AND FRIENDS

**20 YEARS OF ROBOCUP
WORLD'S LEADING AND LARGEST
INTELLIGENT ROBOTICS
COMPETITION**

robocup2016.org

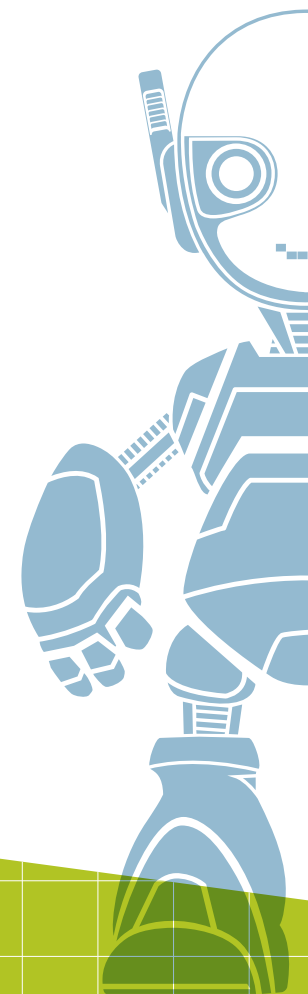




AGENDA

A Welcome from our General Chair	2
About RoboCup and its Community	3
Benefits for Research and Development, Science and Society	4
RoboCup Participant Demographics	5
The Leagues at RoboCup	6 – 7
The RoboCup Federation Structure and Partners	8 – 9
RoboCup 2016 Leipzig – Best Place for Robots and Friends	10 – 17
Be a Part, Be a Sponsor!	18 – 25
Impressive Appearance – Sponsorship Advertising that Gets Results	26 – 27
Our Coordinates	28

Enclosure: Sponsorship Packages





Prof. Dr.-Ing. Gerhard K. Kraetzschmar

Bonn-Rhein-Sieg University of Applied Sciences

A WELCOME FROM OUR GENERAL CHAIR

Disruptive technologies cause fundamental changes to our way of life, our way of working, and to the global economy (McKinsey 2013).

Intelligent robotics is a disruptive technology! Disruptive technologies often arise from grand challenges. Some of the grand challenges of the past that produced them include putting a man on the moon, decoding the human genome, and designing a computer that could defeat the world chess champion. In 1997 a team of researchers initiated RoboCup as a new grand challenge: **By 2050, a team of fully autonomous humanoid robot soccer players would be able to defeat the world champion team in a game played in accordance with the official FIFA rules.** Soccer-playing robots are just one aspect of RoboCup. It also comprises self-driving vehicles and robot-based assistants for elderly care facilities, for work, home and for disaster response. With RoboCupJunior, RoboCup is attracting young people to STEM fields and inspiring the next generation of scientists and engineers.

You are cordially invited

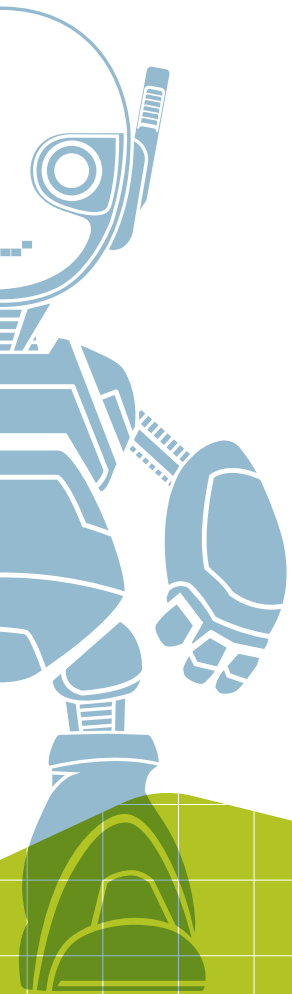
to Leipzig for the 20th RoboCup, running from 30 June to 4 July, 2016.

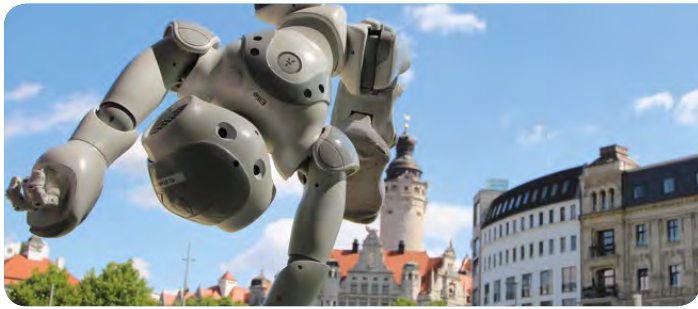
See for yourself what RoboCup teams have achieved in the past 20 years.

Meet more than 3,500 dedicated scientists and developers from more than 40 countries.

Be inspired by the contests, and become part of the RoboCup network.

**AND JOIN OUR MANY
OTHER GENEROUS SPONSORS
IN HELPING US ORGANIZE
THE BEST ROBOCUP EVER!**





RoboCup
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ABOUT ROBOCUP AND ITS COMMUNITY

- RoboCup is the most prominent and largest competition for intelligent robots, and one of the world's key technology events for research and training.
- Ever since 1997, the RoboCup Federation has been pursuing its objective of developing intelligent humanoid soccer-playing robots, which by 2050 will be able to beat the FIFA champions.
- The international RoboCup community fosters the development of intelligent robots by defining and organizing competitions that are used by scientists and students from all over the world to test and demonstrate their robots in attractive, realistic scenarios.
- RoboCup takes place annually at a different venue and is supported by a unique international community of tens of thousands of contributors.
- RoboCup 2016 will be only the second in Germany and the eighth to take place in Europe.
- About 500 teams of school children, students and scientists show off the abilities of today's robots in a wide array of leagues and domains.
- Around 3,500 participants from more than 40 countries compete at RoboCup.
- RoboCup offers its participants a unique soft skills training opportunity as well as the challenge to work in multi-disciplinary teams, carry out internationally competitive R&D projects, develop highly complex systems, and meet tight deadlines.





BENEFITS FOR RESEARCH AND DEVELOPMENT, SCIENCE AND SOCIETY

- RoboCup teams work on interdisciplinary scientific problems related to robotics, artificial intelligence, computer science and engineering.
- The RoboCup community has so far published thousands of scientific publications at internationally renowned conferences and in scientific journals. RoboCup organizes its own annual RoboCup Symposium.
- Several competitions at RoboCup highlight the immediate benefits of robotics for industry, the economy and our everyday lives:

RESCUE ROBOTS in disaster response

SERVICE ROBOTS providing assistive services to people

MOBILE ROBOTS for logistics, materials flows and transport systems

COOPERATIVE ROBOTS for performing complex tasks in industrial settings

PRACTICALITY

- The basic technology of Kiva Systems – a mobile robotic fulfillment system – was born out of the Small Size League. Amazon acquired Kiva Systems in 2012 for more than 700 million USD.
- French-based Aldebaran launched their successful humanoid Nao robots at RoboCup as successor to Sony's AIBO. Japanese investor Softbank bought into Aldebaran in 2013 with a 120 million USD investment, and has recently taken over the company completely.
- Motors built by Korean company ROBOTIS, now used in research projects worldwide, found their first major user community in RoboCup. Their commercial DARwIn robot was conceived in collaboration with a team in the Humanoid League.
- Open source solutions developed by RoboCup teams are used by research groups and companies all over the world.
- The Japanese robot Quince, deployed in Fukushima in 2011, had previously been tested in RoboCup Rescue.



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ROBOCUP PARTICIPANT DEMOGRAPHICS

RoboCup classifies participants into two main groups,
RoboCupMajor and **RoboCupJunior**.



RoboCupMajor

Team members are doctoral candidates, bachelor and masters students, team coaches are professors, post-docs and experienced doctoral candidates

Teams are generally from the fields of robotics, automation, artificial intelligence and computer science

Teams from around 40 countries



RoboCupJunior

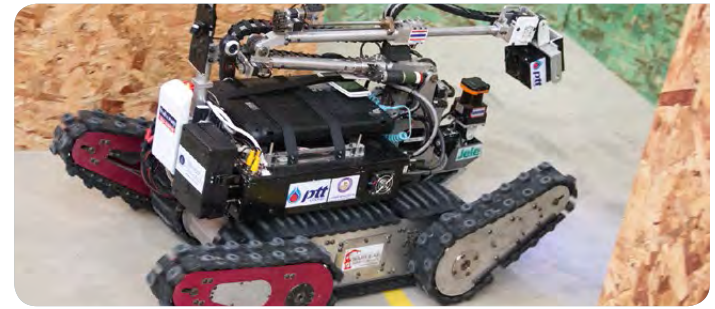
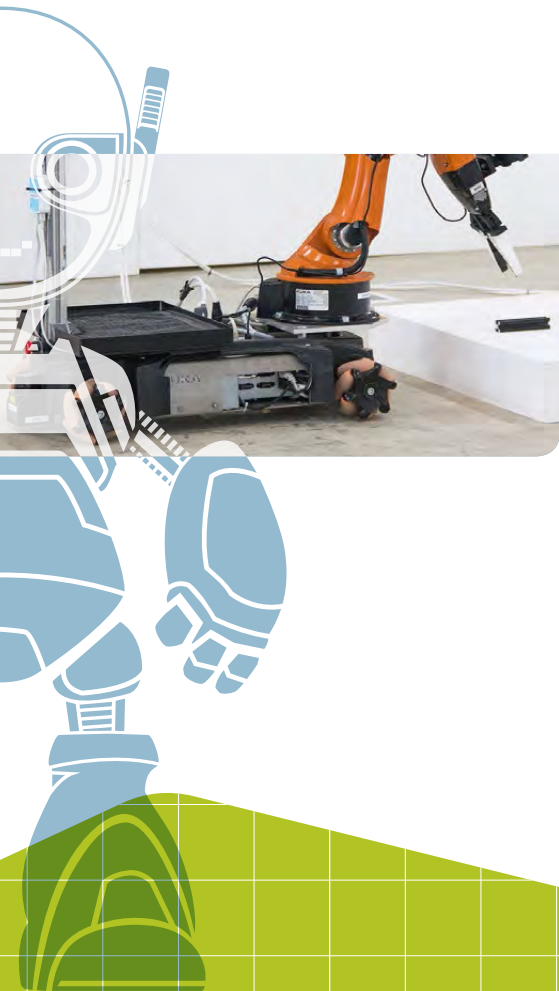
PRIMARY AGE CLASS
School children younger than 15 on 1 July 2016
(born after 1 July 2001)

SECONDARY AGE CLASS
School children younger than 20 on 1 July 2016
(born after 1 July 1996)

Teams from around 40 countries

■ International student and researcher teams and school teams, all enthusiastic about technology, compete in **different leagues**.





THE LEAGUES AT ROBOCUP



RoboCupMajor

Soccer

Teams of robots will be programmed with the aim to orientate and move in the playing field autonomously to score goals.

RoboCup Rescue

Tele-operated and autonomous robots quickly assess the situation in disaster scenarios and provide first aid to trapped victims.

RoboCup@Work

Mobile manipulators – mobile robots with industrial robot arms – cooperate with and assist humans in the factory of the future: Industry 4.0.

RoboCup@Home

Autonomous mobile service robots support the elderly and the disabled both at home as well as in public spaces such as shopping centers.

Logistics League

Teams of Robotino robots from Festo Didactics demonstrate modern production logistics and deliver materials to ten production machines.

RoboCupJunior

Soccer

School children construct and program robots for contests in the areas of

Dance / OnStage

soccer, dance / OnStage and rescue:

Rescue

creativity, knowledge and ability.



FOOTBALL AT ROBOCUP



RoboCupMajor

Soccer

Humanoid

Teams of up to four autonomous humanoid robots play soccer in three size classes.
The requisite human-like movements pose tough challenges in terms of stability and dynamics.

Standard Platform

Teams of up to five autonomous humanoid robots play soccer.
Only Nao robots from Aldebaran are admitted as players. Software development is the key factor.

Middle Size

Teams of up to six completely autonomous, wheeled robots play soccer with an official FIFA ball.
All sensors, computers etc. must be on board the robots.

Small Size

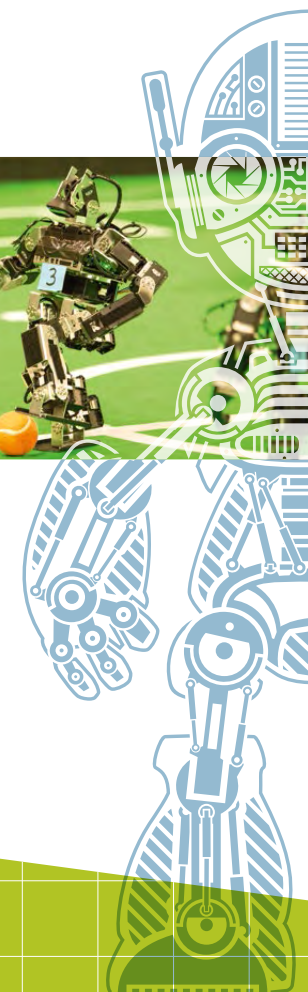
Teams of five small robots play soccer with a golf ball. Cameras above the field deliver data on the state of play, a computer controls the robots via radio communication.

3D Simulation

Teams of eleven simulated humanoid robots play virtual soccer in 3D.
A complex physics engine enables realistic simulation of the players and the ball.

2D Simulation

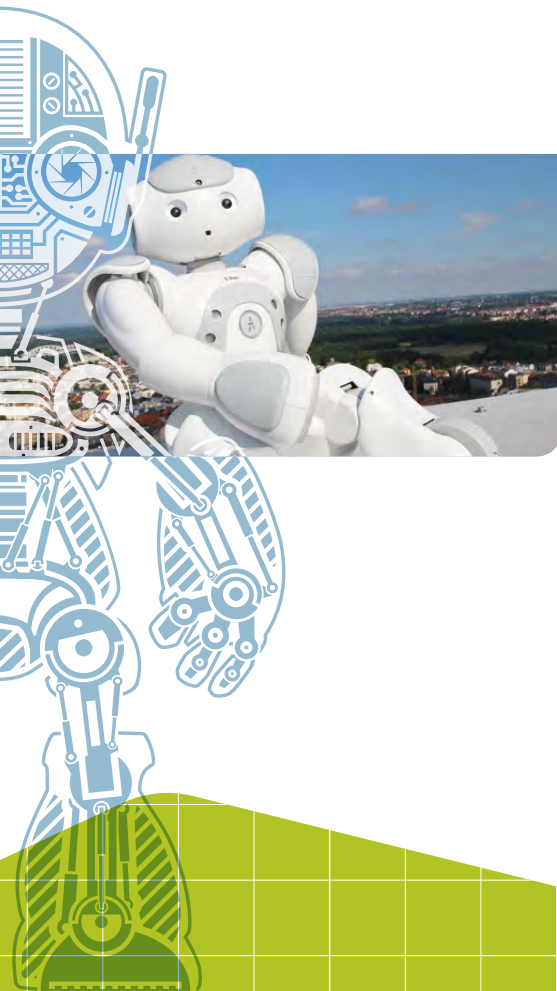
Teams of 11 agents play virtual soccer in 2D.



■ In all leagues, the robots act autonomously and play without human intervention.



THE ROBOCUP FEDERATION STRUCTURE AND PARTNERS



- The **Trustee Board** is the top-level steering committee. It currently has 21 members. The Trustee Board elects a president for a three-year term. The president nominates four vice presidents for America, Asia, Europe and RoboCupJunior.
- The **International Advisory Board (IAB)** is composed of experienced scientists (mainly professors) who have been active for many years in RoboCup as trustees or executive members. The board currently has 30 members.
- The **Executive Committee (Exec)** is the top-level link to the competition activities, and currently has 35 members (2 to 4 per league).
- Each **Technical Committee (TC)** is composed of 5 to 9 members including the Exec members for the league and a further 3 to 5 members elected by the teams. There is one technical committee per league – giving currently a total of 85 members in all TCs. About 25 TC members are responsible for the rules of the RoboCupJunior contests.
- Each league has an **Organizing Committee (OC)** with 4 to 6 members. Of these, 1 to 2 are from the Local Organizing Committee. The OC comprises a total of around 70 members, who are responsible for the organization of a league at the next RoboCup for one year.
- The **Local Organizing Committee (LOC)** is responsible for the preparation, implementation and follow-up stages of each RoboCup.

THE GLOBAL PARTNERS




FLOWER ROBOTICS

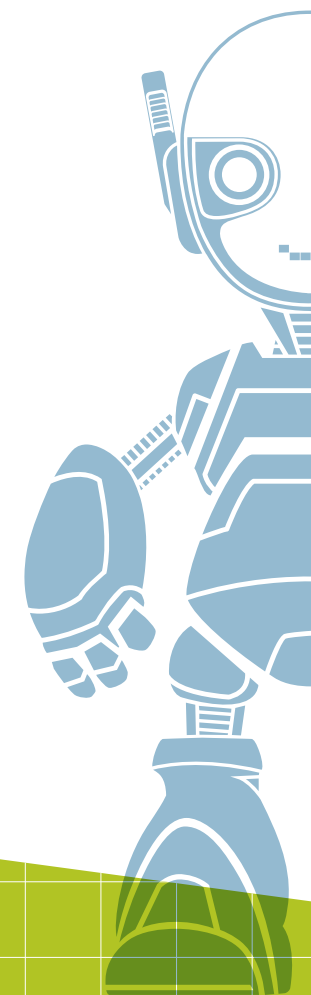




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TRUSTEE BOARD

 President Dr. Itsuki Noda AIST Japan	 Vice President America Prof. Peter Stone University of Texas USA	 Vice President Asia Prof. Changjiu Zhou Singapore Polytechnic Singapore	 Vice President RoboCupJunior Prof. Amy Eguchi Bloomfield College USA	 Vice President Europe Prof. Gerhard K. Kraetzschmar BRSU Germany	 Prof. Oskar von Stryk TU Darmstadt Germany	 Prof. Sven Behnke University of Bonn Germany
 Prof. Manuela Veloso Carnegie Mellon University USA	 Dr. Adam Jacoff NIST USA	 Prof. Luca Iocchi Università di Roma La Sapienza Italy	 Prof. H. Levent Akin Boğaziçi University Istanbul Turkey	 Dr. Hiroaki Kitano Systems Biology Institute Japan	 Prof. Fernando Ribeiro Universidade do Minho Portugal	 Prof. Claude Sammut University of New South Wales Australia
 Prof. Daniel D. Lee University of Pennsylvania USA	 Prof. Tijn van der Zant University of Applied Sciences Windesheim Netherlands	 Prof. Daniele Nardi Università di Roma La Sapienza Italy	 Dr. Komei Sigiura NICT Japan	 Prof. Minoru Asada Osaka University Japan	 Prof. Luis Almeida Universidade do Porto Portugal	 Dr. Oliver Obst CSIRO Computational Informatics Australia





ROBOCUP 2016 LEIPZIG BEST PLACE FOR ROBOTS AND FRIENDS



- Leipzig is the designated “City of Science” for 2016. From 30 June to 4 July, 2016 advanced robots built by 3,500 participants from more than 40 countries will compete in a series of contests. An international showdown of the science and research elite.
- You can benefit from the intense public, media and industry interest in the event as a sponsor of RoboCup 2016.
- The soccer-playing robots are a key highlight, but other robots will be performing equally impressive tasks in areas such as locating victims in disaster situations or interacting with people in their everyday lives.
- Your audience: 40,000 specialist and lay visitors from Germany and beyond and, more than 200 journalists (based on RoboCup 2013, Eindhoven / Netherlands).

**SPONSORS WILL BE ABLE TO POSITION THEIR BRAND
POWERFULLY IN A WHOLE STADIUM FULL OF VISITORS
AND CAN EXPECT COMPREHENSIVE
MEDIA COVERAGE.**



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DATES AND FACTS

- **Date:** 30 June to 4 July, 2016
- **Place:** Leipziger Messe, Leipzig, Germany
- **Participants:** 3,500 (about 500 teams) from more than 40 countries
- **Visitors:** approx. 40,000 (based on RoboCup 2013, Eindhoven / Netherlands)
- **Contests:** taking place in approx. 20 different leagues
- **Contest Area:** 30,000 – 40,000 m²
- **Industry Exhibition:** 5,000 m²



LOCAL ORGANIZING COMMITTEE



General Chair

Gerhard K. Kraetzschmar

Professor for Autonomous Systems
Bonn-Rhein-Sieg University of Applied Sciences



Oskar von Stryk

Professor for Computer Science
TU Darmstadt



Sven Behnke

Professor of Computer Science
University of Bonn



Ansgar Bredenfeld

CEO
Dr. Bredenfeld UG



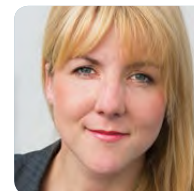
Markus Geisenberger

Managing Director
Leipziger Messe



Silvana Kürschner

Executive Director Business Development
Leipziger Messe



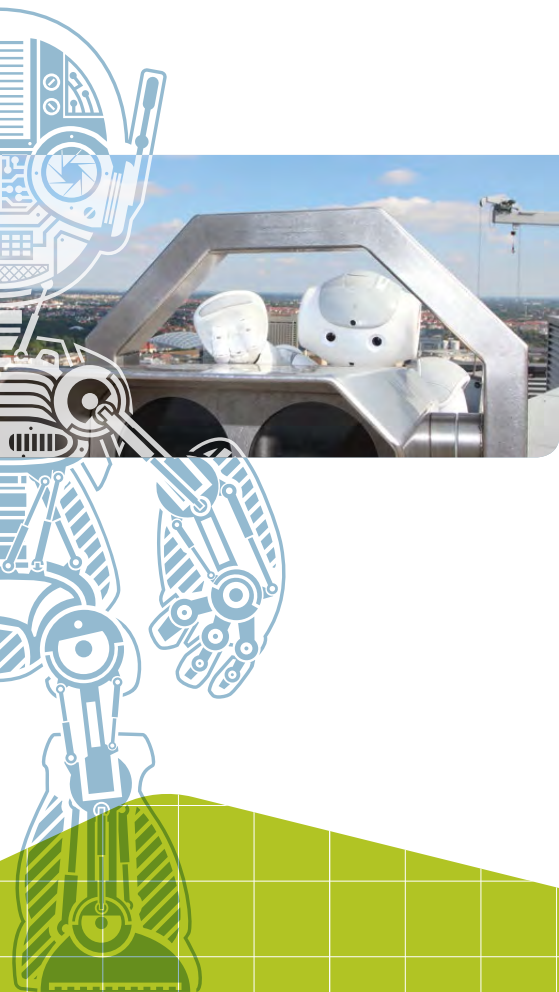
Kati Fritzsche

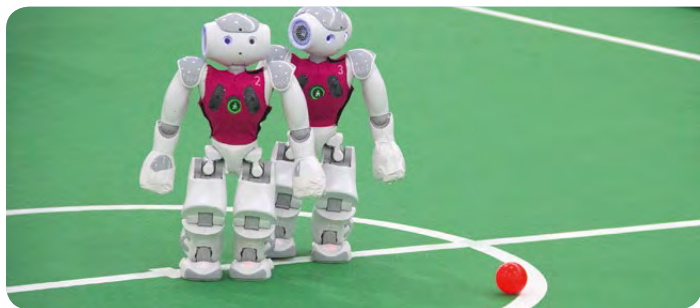
Project Director
Leipziger Messe



Hanna Krajczyk

Project Manager
Leipziger Messe

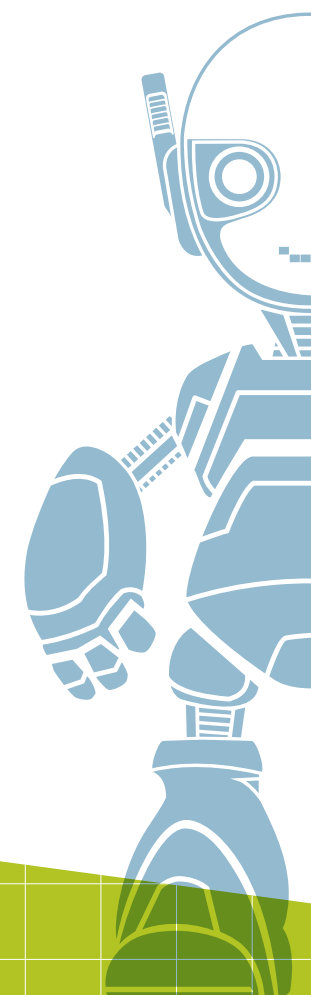


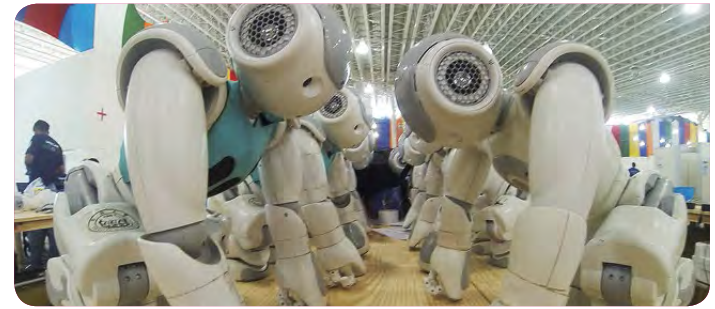
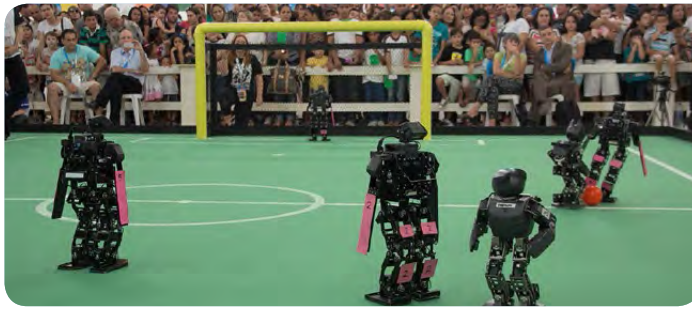


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EXTENDED LOCAL ORGANIZING COMMITTEE

League	Local Chair	Institution	Local Chair, Deputy	Institution
Humanoid	Daniel Seifert	Freie Universität Berlin	Reinhard Gerndt	Ostfalia University of Applied Sciences
Standard Platform	Thomas Röfer	The German Research Center for Artificial Intelligence, Bremen	Rico Tilgner	Leipzig University of Applied Sciences
Small Size	Tim Laue	The German Research Center for Artificial Intelligence, Bremen	Michael Bleier	Friedrich-Alexander-Universität Erlangen-Nürnberg
Middle Size	Andreas Witsch	University of Kassel	Dominik Kirchner	University of Kassel
2D Simulation	Klaus Dorer	Offenburg University of Applied Sciences	Stefan Glaser	Offenburg University of Applied Sciences
3D Simulation	Klaus Dorer	Offenburg University of Applied Sciences	Stefan Glaser	Offenburg University of Applied Sciences
Rescue Robots	Johannes Pellenz	The Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support (BAAINBw)	Stefan Kohlbrecher	Technische Universität Darmstadt
Rescue Simulation	Moritz Goebelbecker	University of Freiburg	Alexander Kleiner	Örebro University
RoboCup@Home	Dirk Holz	University of Bonn	Paul Plöger	Bonn-Rhein-Sieg University of Applied Sciences
RoboCup@Work	Frederik Hegger	Bonn-Rhein-Sieg University of Applied Sciences	Jakob Berghofer	KUKA Laboratories
Logistics League	Alexander Ferrein	FH Aachen	Ulrich Karras	Festo Didactics
Junior Soccer	Winfried Schmitz	CJD Christophorusschule Königswinter	Paul Manns	Technische Universität Darmstadt
Junior Rescue	Joachim Selke	Goetheschule Hannover	Ute Ihme	Hochschule Mannheim
Junior Dance / OnStage	Barbara Walcher	Lessing-Gymnasium Neu-Ulm	Gero Eckermann	HDP Management Consulting
Junior Cospace	Manuela Kanneberg	Otto von Guericke University Magdeburg	Martin Bader	Lessing-Gymnasium Neu-Ulm





GAME PLAN AND SCHEDULE

Date	Mon, 27 June	Tue, 28 June	Wed, 29 June	Thu, 30 June	Fri, 1 July	Sat, 2 July	Sun, 3 July	Mon, 4 July
Setup		Major	Junior					
Competitions				Major				
				Junior				
Finals						Junior	Major	
Ceremonies			Opening			Junior Awards	Major Awards	Closing
Social Events			Welcome			Junior Party	Banquet	
Conferences								Symposium
Exhibitions				RoboCup Exhibition				
			RoboCup Walk of Fame					
Interactive Event				RoboCamp				

Tentative schedule in April 2015



RoboCup
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SUPPORTING PROGRAM AT A GLANCE

Exhibitions and Forum	Exhibition for technological progress in robotics and artificial intelligence	Forum for recruitment and advancement of STEM talents	Anniversary exhibition "20 years of RoboCup"
Scientific Conferences and Symposia	RoboCup Symposium	Scientific conferences	Elite researcher networks and work groups
Interactive Events	RoboCamp/RoboParty "Build your own robot"	Construction competitions for children and young people	Outdoor activities for visitors and participants

SUPPORTING SCIENTIFIC PROGRAM

- 20th Annual RoboCup International Symposium (RIS)
- 9th German Conference on Robotics (ROBOTIK 2016), organized biennially by Deutsche Gesellschaft für Robotik (German Society for Robotics)*
- 9th International Conference in Intelligent Autonomous Vehicles (IAV) organized triennially by the International Federation of Automatic Control (IFAC)*
- Walk of Fame "20 years of RoboCup" in partnership with the Heinz Nixdorf MuseumsForum Paderborn, the world's largest computer museum*



* proposed / planned



MAP OF THE EXHIBITION GROUNDS



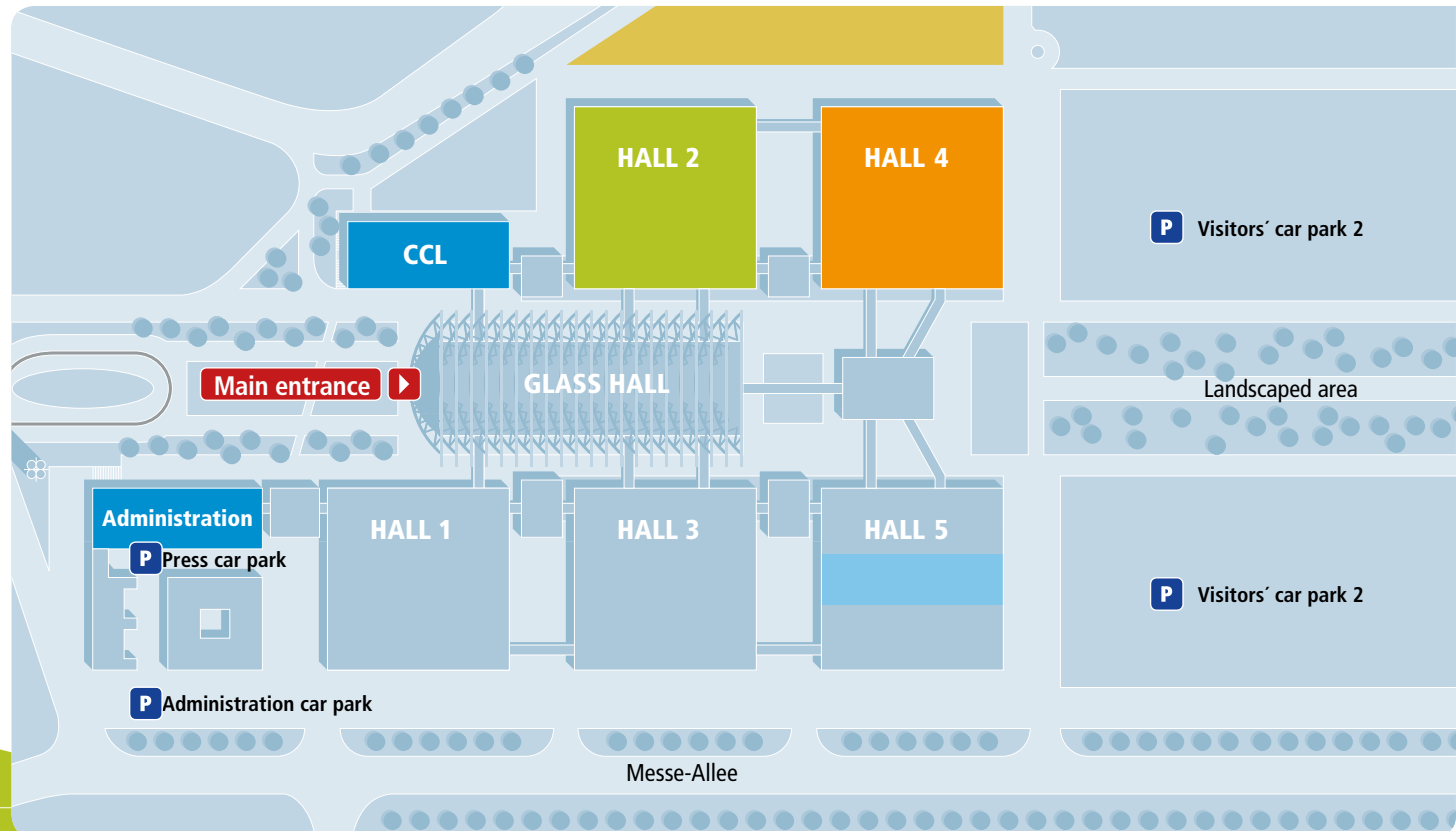
RoboCupMajor

RoboCupJunior

RoboCamp

Scientific
Supporting Program

Outdoor Area



SUPPORT BY



Bundesministerium
für Bildung
und Forschung

Patron of RoboCup 2016

Prof. Dr. Johanna Wanka
Federal Minister for Education and Research



Freistaat
SACHSEN

Patron of RoboCup 2016

Martin Dulig
Minister of State in Saxony for Economic Affairs,
Labour and Transport



Stadt Leipzig

Burkhard Jung
Lord Mayor of the City of Leipzig

The following institutions and companies have signaled their support (Tentative schedule in April 2015):

SCIENCE



Hochschule
Bonn-Rhein-Sieg



TECHNISCHE
UNIVERSITÄT
DARMSTADT

universität**bonn**



TECHNISCHE
UNIVERSITÄT
DRESDEN



HTWK
Leipzig

BUSINESS



KUKA

informatik dv



eu
Robotics



**PHENIX
CONTACT**

MEDIA

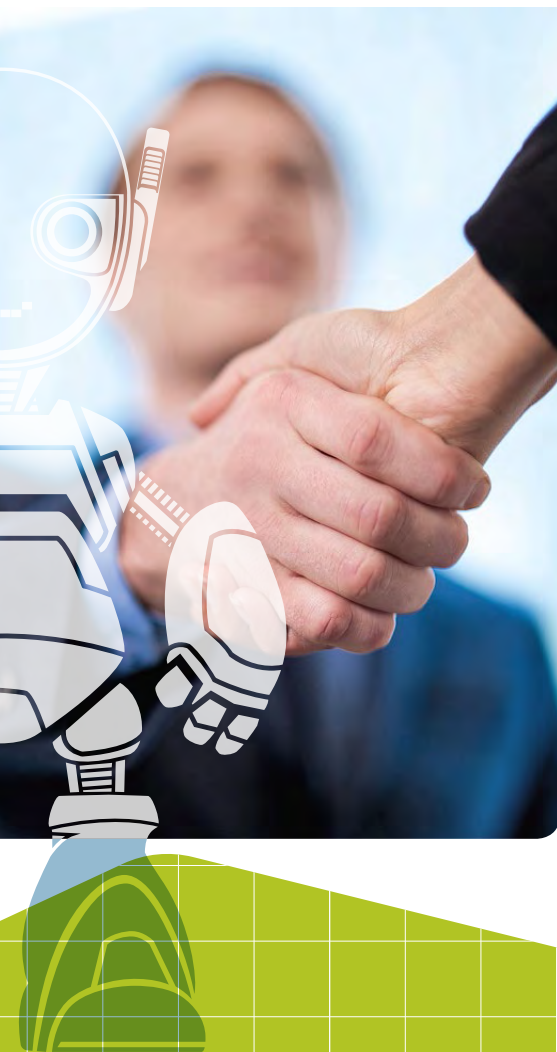


The public television channel "Das Erste" and the public broadcaster
"Mitteldeutscher Rundfunk" are planning comprehensive coverage.

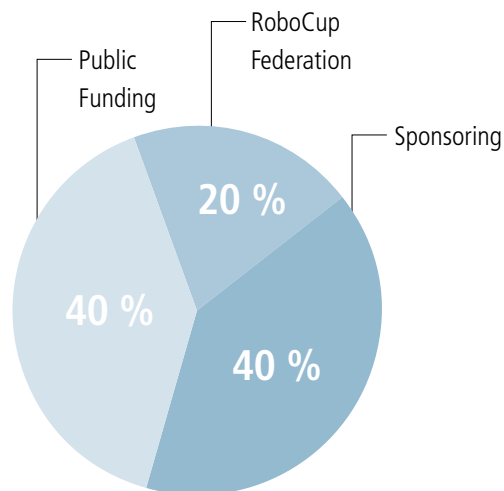


Das Erste





FINANCIAL PLAN PUBLIC PRIVATE PARTNERSHIP



BE A PART, BE A SPONSOR!

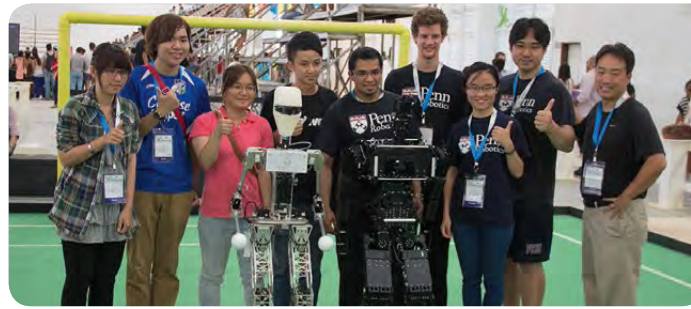
Marketing communications activities for RoboCup 2016 will start in July 2015. From inclusion in pre-event media coverage, to exposure gained during the World Cup, right up to integration in the final report – you will benefit from over 12 months of international marketing activities, media exposure and coverage in 75 countries! As a sponsor you will be given a powerful presence!

Pre-Event
July 15 to June 16

On-Site
30 June to 4 July 16

Post-Event
July to Dec 16

**OUR ATTRACTIVE SPONSORSHIP PACKAGES COME WITH PLENTY
OF BENEFITS. AVAILABILITY IS LIMITED. SECURE YOUR
EXCLUSIVE PLACE AS A SPONSOR NOW!**



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KICKOFF FOR JOINT SUCCESS!

■ There are good reasons for your financial support!

Innovation and Research

Gain exclusive access to the national and international research elite!

Expand your network and drive your own research and development projects forward!

Be part of the live action in the making of robotics and artificial intelligence history!

Recruitment and Employer Branding

Present yourself as an attractive employer at the cutting edge of technology!

Find the highly skilled employees of the future for your company!

Position yourself internationally and establish sustainable research contacts!

Image and Media Reach

Be a host to research and science, and start actively shaping the future!

Take responsibility by supporting the next STEM generation!

Benefit from comprehensive communications activities and worldwide media coverage!





MEET YOUR TARGET GROUPS!

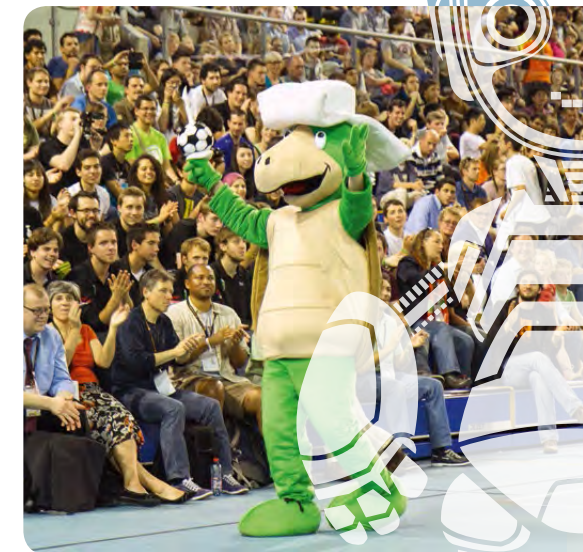
- The playing fields, industry exhibition and accompanying conferences provide a meeting point for the international Who's Who of politics, business, research and education.
- Industries with a high need for automated processes, such as the automobile industry or logistics, will be represented by their decision makers, while scientists from the fields of robotics, automation, artificial intelligence, mechanical engineering and information technology will present their latest research developments. These specialists will be accompanied by high-potential students and the next STEM generation, as well as a public audience with a strong interest in technology.
- Participants, professionals or simply people interested in RoboCup. At RoboCup 2016 in Leipzig you will find every target group you need to ensure your success.

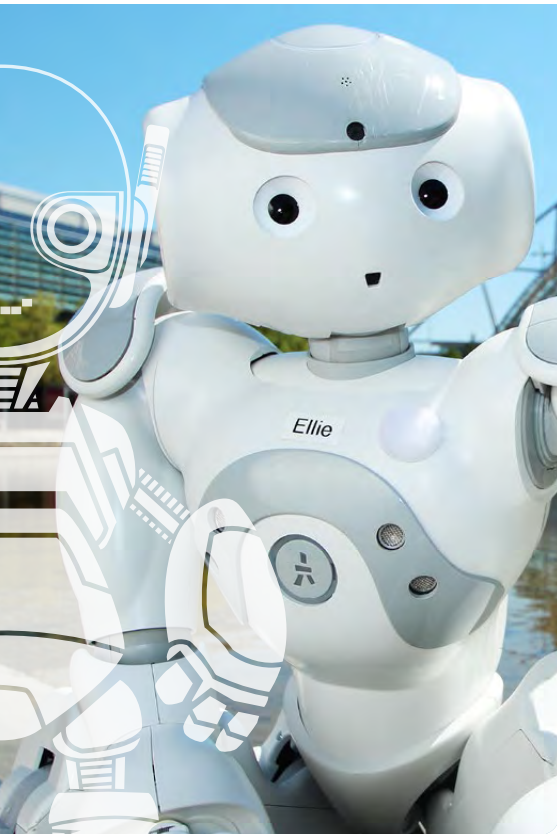


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OVERVIEW OF THE TARGET GROUPS

Delegations and Representatives	International Participants	International Professional Visitors	National Visitors
Politics	Students and doctoral candidates from the fields of robotics, automation, artificial intelligence and computer science	Scientists, Ph.D. students & professors from the fields of robotics, automation, artificial intelligence and computer science	
Educational Institutions			
Economy and Industry	Students (10 – 20 years)	Teachers	
		Representatives of research and development from relevant industries	Technology lovers and the next STEM generation
			Families





MEDIA RESONANCE WITH A KICK^{*}

PRESS

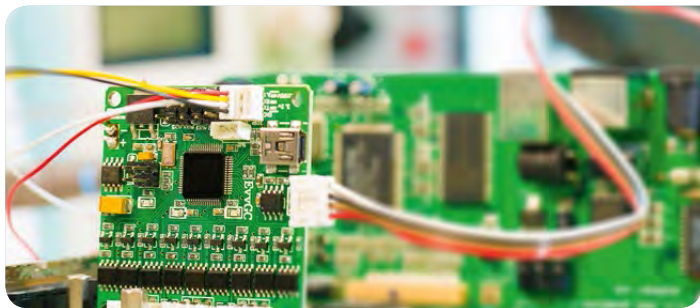
- 200 journalists from 30 countries
- Coverage in 75 countries
- Over 1,700 articles worldwide
- Over 8,000 news reports worldwide

^{*} Statistics from RoboCup 2013, Eindhoven/The Netherlands

ONLINE

- Over 80,000 visitors to the website during the event alone
- 60,000 visitors to RoboCup TV
- Over 83,000 visitors to the YouTube channel
- Over 11,000 tweets on Twitter
- 5,000 Facebook fans

**ROBOCUP 2016 IS AN EVENT THAT WILL RESONATE WITH THE
PROFESSIONAL WORLD AS WELL AS WITH THE PUBLIC,
GIVING YOUR COMPANY IMAGE ADDED
DRIVE FOR MORE THAN A YEAR.**



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TIME TO PLAY AT THE TOP!

An event such as RoboCup 2016 provides a unique opportunity to exchange views regarding current developments with the most important educational institutions within your field. Find out first-hand about the current state-of-the-art in research and development and scout new talent. Aside from 3,500 participants, representatives from the following institutions will be present:

EUROPE

- TU Darmstadt (Germany)
- University of Bonn (Germany)
- Bonn-Rhein-Sieg University of Applied Sciences (Germany)
- Universidade do Minho (Portugal)
- Universidade do Porto (Portugal)
- Università di Roma La Sapienza (Italy)
- University of Applied Sciences Windesheim (The Netherlands)
- Boğaziçi University (Turkey)

AMERICA

- Carnegie Mellon University (USA)
- University of Texas (USA)
- Bloomfield College (USA)
- National Institute for Standards and Technology (USA)
- University of Pennsylvania (USA)

AUSTRALIA

- CSIRO Computational Informatics
- University of New South Wales

ASIA

- National Institute of Advanced Industrial Sciences and Technology (Japan)
- Systems Biology Institute (Japan)
- Osaka University (Japan)
- National Institute of Information and Communications Technology (Japan)
- Singapore Polytechnic (Singapore)



BECOME A TALENT SCOUT!

- Research is not the only thing moving ever forwards. It is also essential as a company to maintain a future-oriented approach.
- This includes the search for top performers and well-educated employees. RoboCup 2016 provides the perfect platform for recruiting.
- Present yourself as an attractive employer in the field of science and communicate your work and goals to recruit international professionals.
- Create contacts with educational institutions, research centers and universities from all corners of the world and initiate strategic recruitment.



OUR ATTRACTIVE SPONSORSHIP PACKAGES COME WITH
NUMEROUS BENEFITS. AVAILABILITY IS LIMITED.
SECURE YOUR EXCLUSIVE PLACE AS A SPONSOR NOW!

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SPONSORSHIP PACKAGES – RIGHT ON TARGET



1 Anniversary Sponsor



3 Gold Sponsors



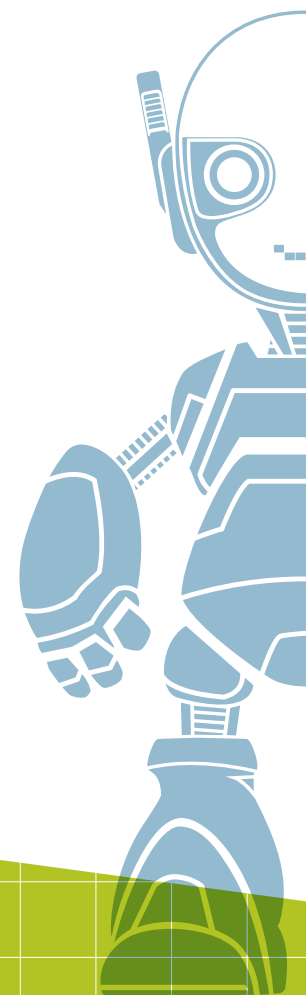
5 Silver Sponsors



10 Bronze Sponsors

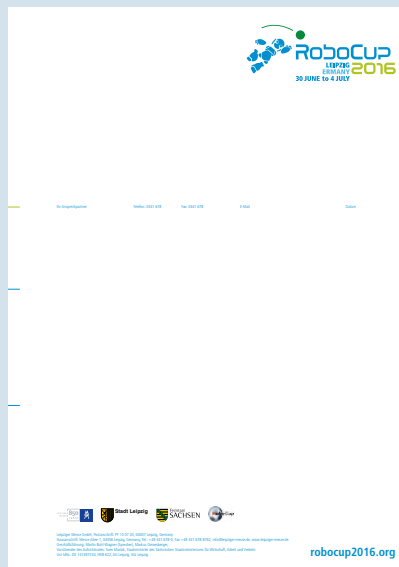


Friends of Robots
unlimited



IMPRESSIVE APPEARANCE – SPONSORSHIP ADVERTISING THAT GETS RESULTS*

LOGO INCLUSION ON GENERAL COMMUNICATION MEDIA



LETTER PAPER



SAVE-THE-DATE CARD/CITY CARD



POSTER

* selected examples



BRANDING ON TURNSTILES



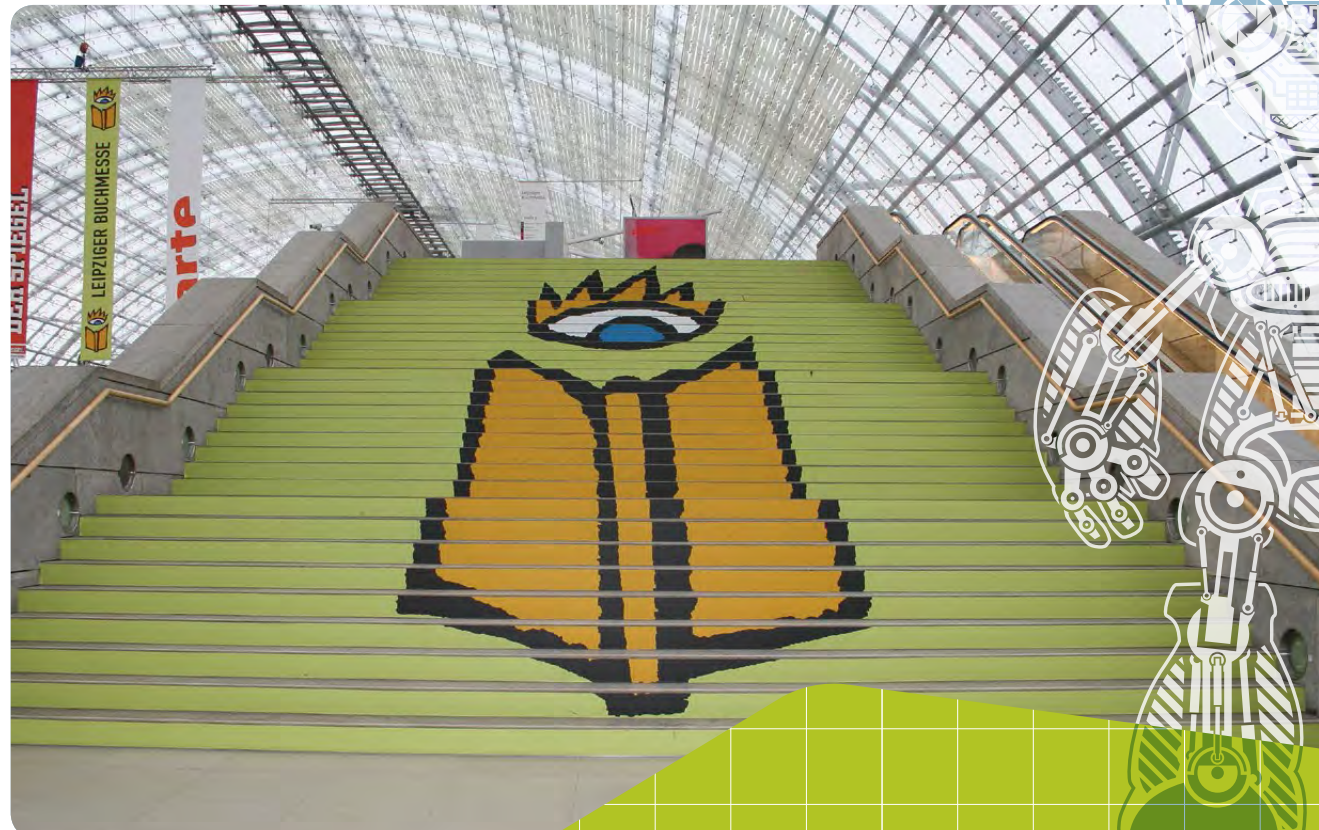
ADVERTISING ARCHES IN INTERSECTIONS BETWEEN HALLS

RoboCup
LEIPZIG
GERMANY **2016**
30 JUNE to 4 JULY

BRANDING ON ESCALATORS



BRANDING ON THE STAIRCASE IN THE GLASS HALL





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