

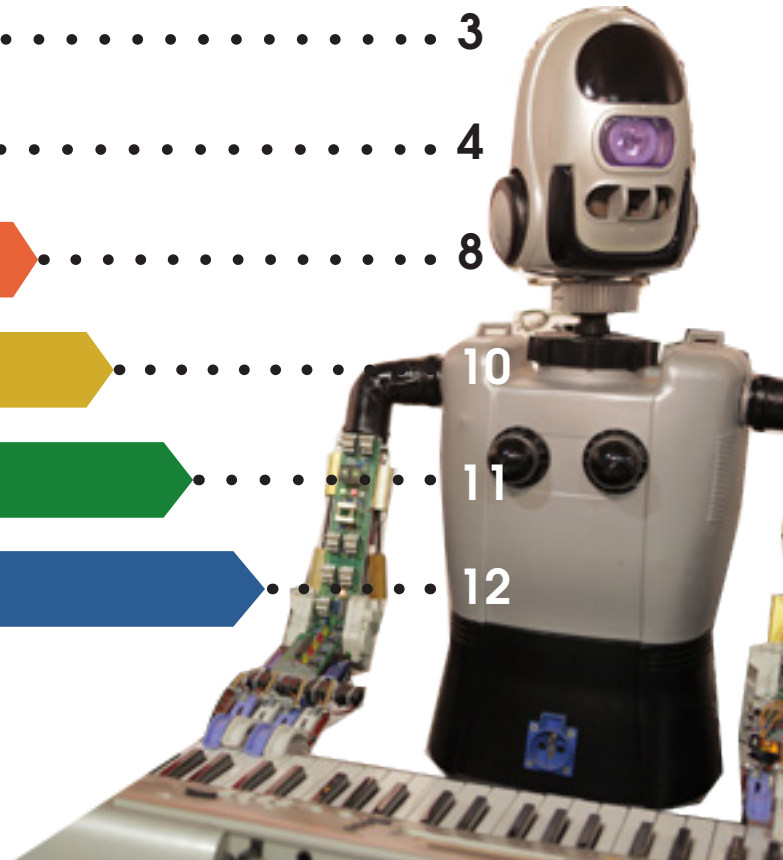


Robotics week 2014

Teachers Participation
Handbook and
Registration Guide

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Welcome!

“ I am happy to announce the European Robotics Week (ERW) 2014, which is due to take place on 24th- 30th November. Preparations are well underway, with the forthcoming events of this year’s edition key to supporting teachers in implementing national Science, Technology, Engineering and Mathematics (STEM) strategies.

Robots are able to capture our imagination like no other tool by creating a fun, interactive and independent educational process. By learning how to program the robot, how to use its sensors and define its movements, one easily learns physical, geometrical and mathematical concepts. As a result, this experience reinforces and the child tacitly learns STEM by watching and interacting with robots, as they practically perform the results of the lesson. Equally important is the self-esteem which a successful hands-on experiment delivers.

It is essential that teachers at all levels of education have the opportunity to complement successful teaching, with the interactive opportunities that robots can offer within the framework of complete education. We have been asking schools throughout Europe to take up the challenge and demonstrate robotics education at all levels since 2011. I am delighted that many skilled teachers have taken up this challenge and we have seen huge success in participation.

This handbook was written to support new potential participants to the EU robotics week. Within it, you will find a brief introduction to the components of the ERW 2014, along with a collection of resources you can use to make the most of holding your first event. European Robotics Week is an exciting opportunity to transform teaching in our schools. I should also like to take this opportunity to thank all of you who are working hard to make the euRobotics Week a success!

”

Uwe Haass

A handwritten signature in blue ink, appearing to read 'Uwe Haass', written over a white background.

General Secretary

European Robotics Week 2014

A future of robots for everyone.

Robots are the future; Robots occupy the imaginations of youngsters, teenagers, students – essentially everybody. Robots are cool and we all have our favourites from Sci-Fi movies. But how much more enjoyable would it be to interact with the ones that we would have built and designed ourselves? Imagine robots crawling like insects, walking like humans, interacting with the environment in different ways, or even playing sports such as football.

European Robotics Week is about translating this excitement into valuable education by motivating all ages to gain an insight into natural science and mathematics, but also

in developing a responsible opinion for the use of robotics in our society.

European Robotics Week was born out of the initiative of the European Robotics community to bring robotics research and development closer to the public. Its main aim is to inspire students of all educational levels to pursue careers in Science, Technology, Engineering and Mathematics and allow us to glimpse the future society and the very real impact that robotics will have in it. At euRobotics, we believe that in the future the use of robotics in everyday life will be ubiquitous and as a result we need to involve the public, young and old, in the discussion.





Since 2011, European Robotics Week has attracted more than 100,000 people and encouraged the public to become involved in hundreds of different robotics related activities on a yearly basis. The latest edition looks to emulate this great success and aims to continue raising awareness, whilst breaking new records for attendance, introducing ever more people to the growing prominence of robotics in Europe.

During the European Robotics Week this year, industry, research institutes and universities, will again raise public awareness of robotics, by offering a whole host of robotics related activities. Open labs, exhibitions, challenges, robots in action on public squares, school visits by robotics lectures, guided tours for pupils and much more will inspire students of all ages. Just as in previous editions, many of these activities will be transmitted live online for the whole world to see.

European Robotics Week:
Events all over Europe,
squeezed into a single week



Robotics spur interest in STEM subjects at school

Skills in science, technology, engineering and maths (STEM) are becoming an increasingly important part of basic literacy in today's knowledge society. To keep Europe as a leading economy, we need to continue developing our own researchers and by 2020 add at least one million additional researchers! Yet science education can no longer be viewed as an exclusive endeavour for future scientists or engineers; only science-conscious citizens can make informed decisions and engage in dialogue on science-driven societal issues.

Together, we have to change the perception of Robotics and the science behind it and show that it is not just for nerds. Tens of thousands of school children in Europe, who

may have no interest in technical subjects, change their mind as a result of these essential interactions. The interaction with robots complements the overall teaching experience and helps to motivate young people of any age to learn not only the basics of STEM, but also to direct them onto an independent exploratory, self-motivated learning path.

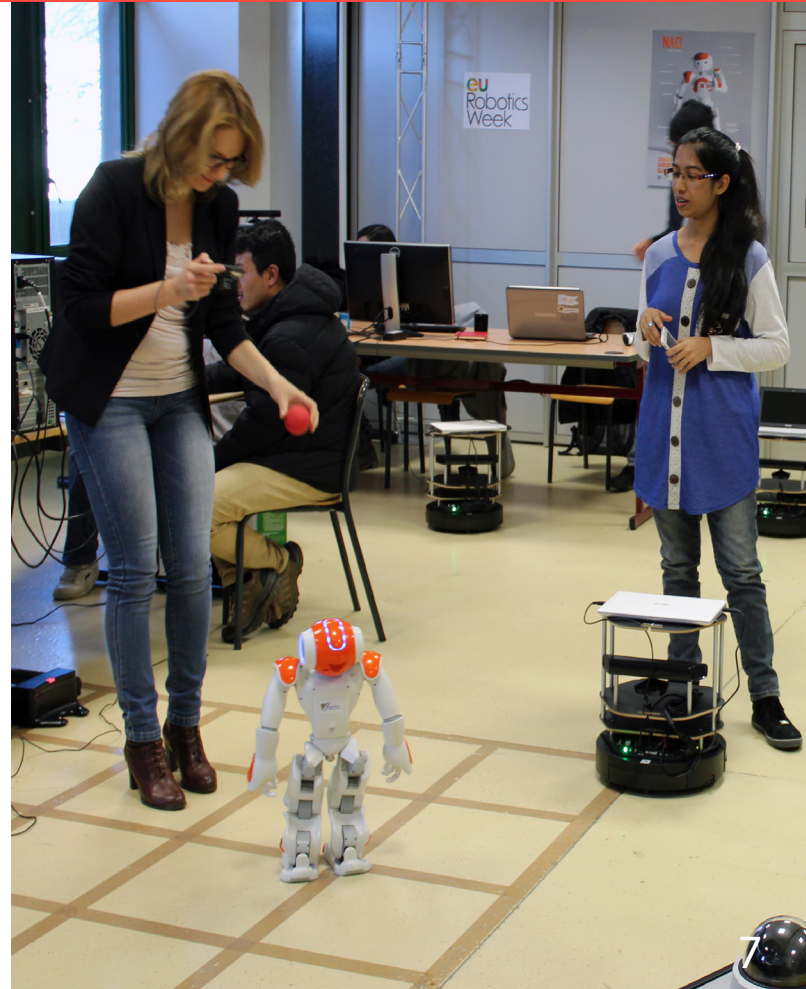
Stimulating this key sector, especially through the youth and all grown-ups who want to join the many tours and events, has a second equally important effect: to raise awareness of the type of impact that robots can have in our society. Robotics provides a solution to many of the current and future societal challenges, such as: working in dangerous fields of work, or taking care of disabled and elderly people.

Gender Equality: More girls in Science!

Women and girls are currently underrepresented in STEM subjects and as its importance grows in our increasingly interconnected global society, it becomes even more imperative that educators find ways to encourage girls to participate in these fields.

According to experts, girls typically engage better with science when it is taught in context but they also relate well to collaborative, project-based and enquiry-based approaches to teaching and learning. The crucial issue is that it appears to be a question of classroom dynamics. We should be aware of these differences and move away from co-educational classroom scenarios where gender stereotyping functions disengage girls from STEM subjects.

Making science more engaging, inclusive and contextual does not mean making it easier. If anything it makes it more challenging and more fulfilling for both boys and girls. European Robotics Week is about diversity and inclusion and we believe that if girls are given the stimulus to continue learning STEM subjects, they won't be the only ones to benefit: science and the whole of society will also.



"It is fantastic to see the children so enthusiastic. This is a reward for all the work we did"



THE NETHERLANDS

The Week presented the latest achievements in Research and Industry through several events like workshops, television programmes, demonstrations, children activities, lab tours, competitions, challenges, a competition for Robotics Start-up's, exhibitions, and a lot more! In The Netherlands, the children TV programme 'zapplive' was watched by around 132.000 people!

IRELAND

2013 was the first year that Ireland had participated in EU Robotics Week, showcasing some of the latest developments in the robotics research space and helping to enthuse students about science and technology. The country hosted more than 40 events, including labs and photographic exhibitions, as part of EU Robotics Week and was organised by Robotics Ireland.



ITALY

There were approximately 80 events in Italy alone and they varied from workshops ranged from educational robotics for autism and advanced courses in robotics surgery to seminars on the applications for motor assistance and rehabilitation.



*"Our Robotics week here in Ireland was amazing! We reached a huge amount of people/students and young children."
Debbie Merrigan, Robotics Ireland.*



Highlight for 2014: Robots come to Toulouse Cité de l'Espace

Due to lift-off for the first time, we will move the European Robotics Week Communication Centre from Brussels to a location full of impressive activities: the Cité de l'Espace in Toulouse. Within this science park dedicated to the space age, the competitions of the European RoCKIn project are set to take place. Teams from all Europe will enter and compete with their robots in two contests: "robots at home" and "robots in factories".

The park itself will launch numerous activities during the week, not to mention the whole of the Toulouse region and the rest of Europe, all of which will be reported on by the European Robotics Week Communication Centre. We plan on moving our Communication Centre to a different location each year. The fourth edition will take place between the 24th and 30th November 2014, expected with more than 300 activities in 25 European Countries – bringing the future and current generations of the robotics community together.



Some of you may have already participated in previous events and therefore you already have the log-in details to upload events on the euRobotics website. Go directly to the **“Login for ERW Partners”** on the right side and login with your credentials. After logging-in, click on **“Manage events”** and then click on **“Create new event”**.

For others who are still not in the system and would like to be able to upload events, the registration process is straightforward:

- You register your data on the euRobotics Week – Events 2014 – Register form;
- We confirm the information and you receive your login information on your e-mail;
- Then you can go to **“Members Login”** on the website (www.robotics-week.eu) and log in using your password, click on **“Manage events”**, fill out the Event Submission Form, and click **“send”**.

HOW TO REGISTER

Important things to keep in mind:

- Events you submit will not immediately show up online. They will first go through a quick check to make sure they are suitable for the Robotics Week and then set online.
- Please avoid registering/uploading any internal conferences or anything that is not meant for the general public.
- Please upload your events in English (you can use your national language on your national website and add the link to the event submission form if you wish).
- Please use the European Robotics Week logo with your local/national promotion and follow the PR Guidelines which also can be downloaded from the Robotics Week website:

www.robotics-week.eu

euRobotics AISBL VI?BT

> Welcome > About > Membership > SPARC > euRobotics Forum > euRobotics Week > press > downloads

> About euRobotics Week
> **Events 2014**
> **Register**
> Events 2013
> Events 2012
> Events 2011
> National Coordinators
> Robotics labs live online
> Robotics Education in Spain

Register

First name*

Last name*

Organisation/Company*

Street/No.*

ZIP/City*

Login for ERW partners

Username

Password

> Login > Password lost

Quicklinks

> Logo
> PR Guidelines 2014
> Press Release - Europe
> Robotics Week 2013

euRobotics week

European National Coordinators

Below you will find a comprehensive list of National Coordinators throughout Europe. If you would like to organise an event, please contact the corresponding country. If you do not see your home country listed, please contact euRobotics at secretariat@eu-robotics.net.

Country	Coordinator	Organisation	Contact
Austria	Rooker, Martijn	Profactor GmbH	martijn.rooker@profactor.at
	Kandlhofer, Martin	TU Graz	mkandlho@ist.tugraz.at
	Steinbauer, Gerald	TU Graz	steinbauer@ist.tugraz.at
Belgium	Bruyninckx, Herman	KUL	herman.bruyninckx@mech.kuleuven.be
Bulgaria	Chivarov, Nayden	Service Robotics Group / Bulgarian Academy of Sciences	nshivarov@code.bg
Cyprus	Georgiou, George	NOVATEX SOLUTIONS LTD	george.georgiou@novatexsolutions.eu
Czech Republic	Gjørref, Christian	Vive Les Robots	info@vivelesrobots-education.dk
Denmark	Morten Berenth Nielsen	DTI/Teknologisk Institut	morn@teknologisk.dk
	Wieland Østergaard, Julie Maria	DTI/Teknologisk Institut	jmc@teknologisk.dk
Finland	Ruxandra Balboa-Pöysti	Hirvipeikot	ruxandra@hirvipeikot.com
	Andersson, Cristina	The Winning Helix	cristina.andersson@develor.fi
		Hirvipeikot	EUroboticsweek2013@hirvipeikot.com
France	Lacroix, Simon	LAAS - Toulouse	Simon.Lacroix@laas.fr
Germany	Sagert, Stefan	VDMA Robotik + Automation	stefan.sagert@vdma.org
Hungary	Paniti, Imre	Hungarian Academy of Sciences	paniti@sztaki.hu

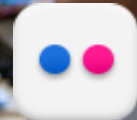
Italy	Operto, Fiorella	scuola di robotica	operto@scuoladirobotica.it
Ireland	Peter Brabazon	Robotics Ireland	peter.brabazon@gmail.com
Macedonia	Sazdovski, Vasko	ROBOTILNICA	v.sazdovski@robotilnica.org
Malta	Cassar, Paul	IMS Ltd	info@imsmalta.com
Norway	Schjolberg, Ingrid	SINTEF ICT	ingrid.schjolberg@sintef.no
Portugal	Miranda Dias, Jorge Manuel	University of Coimbra	jorge@deec.uc.pt
Romania	Adina Florea	University Politehnica of Bucharest	adina.florea@cs.pub.ro
Serbia	Grigoris Chatzikostas	BioSense Center - University of Novi Sad	gchatzikostas@gmail.com
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		HISPAROB	secretaria@hisparob.es
Sweden	Ahlman, Leif	Drones Networking	Leif.Ahlman@dronesnetworking.se
Switzerland	Tomatis, Nicola	Bluebotics	nicola.tomatis@bluebotics.com
The Netherlands	Stramigioli, Stefano	University of Twente, Leo Center for Service Robotics	s.stramigioli@ieee.org
Turkey	Sahin, Erol (and) Kalkan, Sinan	KOVAN Research Lab. - Dept. of Computer Engineering - Middle East Technical University	erol@ceng.metu.edu.tr
United Kingdom	Rocks, Claire	University of Warwick	c.l.rocks@warwick.ac.uk
	Hawes, Nick	University of Birmingham	n.a.hawes@cs.bham.ac.uk
	Patrick, Courtney	PB Consulting	pikcourtney@yahoo.co.uk
	Pegman, Geoff	RURobots	geoff.pegman@rurobots.co.uk



Robotics week 2014

CONTACT US TO SEE
HOW YOU CAN BE
INVOLVED!

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1030 BRUSSELS



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E-MAIL: SECRETARIAT@EU-ROBOTICS.NET

WEBSITE: <http://www.eu-robotics.net/>

