



## Swiss Robotics Industry Day

After its successful launch last year, NCCR Robotics is organising the 2nd Swiss Robotics Industry Day on 02 November 2016 at the Swiss Tech Convention Centre. For information on this year's event and to register please visit our [new website](#).

**SWISS ROBOTICS+**  
**INDUSTRY DAY 2016**



## Open-source Software Release: Information Gain Based Active Reconstruction Framework

[Scaramuzza Lab](#) has released a new open-source library for performing 3D active object reconstruction. [Read more](#)

## Cyathlon Update

Registration for the [cyathlon symposium](#) (6th Oct) is now open. Cyathlon is also offering high schools (German speaking) and their teachers an opportunity to participate to a series of [interactive programmes](#).



## Thymio to be used in French schools

Thymio, the teaching robot widely used in French-speaking Switzerland, is now making inroads elsewhere in Europe. In France, it has been incorporated in an important... [Read more](#)



## Education: Robotics Glossary

We've compiled a list of [commonly used robotics terms](#) in the NCCR Robotics website with layman's explanations. If you don't see what you're looking for, [email us](#) and we'll do our best to add an explanation.



## CONGRATULATIONS

### Stéphanie Lacour named Associate Professor

Stéphanie Lacour was named as Associate Professor of Microtechnology and Bioengineering in the EPFL School of Engineering (STI). [Read more](#)



### Qualcomm Innovation Fellowship

Elias Mueggler ([Scaramuzza Lab](#)) won the [Qualcomm Innovation Fellowship](#) to support his research in *event-based vision for high-speed robotics*.



### Intento SA wins CTI Swiss Medtech Award

In early June, NCCR Robotics spin fund [Intento](#) was presented with the CTI Swiss Medtech Award. [Read more](#)



### Flyability launch Elios



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## ROBOTICS WORLD

### Top News

[Motivational posters with a clever robotics twist](#)  
[MIT's AI passes Turing test for sound](#)  
[Xiaomi challenges DJI with a low-cost drone](#)  
[Chinese investors keep buying international robotics companies](#)  
[Infographic: The making of a collaborative robot](#)

### World events

[RSS](#) 18-22 June  
[ELROB](#) 20-24 June  
[AUTOMATICA](#) 21-24 June  
[UK Robotics week](#) 25 June - 01 July  
[UAV Challenge Medical Express](#) 02 Sept  
[InterDrone](#) 7-9 Sept  
[ESSCIRC - ESSDERC](#) 12-15 Sept  
[Drone Experience](#) 16-17 Sept  
[Drone Berlin](#) 14-15 Oct

### External calls

[Academia-Industry Training Camps](#)

Discover NCCR Robotics spin fund Flyability's new product Elios. Elios allows a safe inspection and exploration of inaccessible places. [Video](#) - [Press release](#).



## CALLS

### PhD/Postdoc Exchange Programme & Master's Internships for Women

[PhD / Postdoc exchange programme](#) - take part in a 3-6 month project inside NCCR Robotics. [Master's internship for women](#) - 3-6 month internship at an NCCR Robotics lab. Deadline for both calls: 31st July.



### Spin Fund: call open on monthly basis

Unlike previous years, from this year onwards the spin fund application process will occur on a rolling basis. Apply for one year's salary to kick-start your business. The spin fund targets PhD, Master's students and senior researchers... [Read more](#)



### SSRR 2016: Call for Papers and Robot Demonstrations

The International Symposium on Safety, Security and Rescue Robotics ([SSRR 2016](#)) will be held at EPFL, 23-27th Oct. [Deadline 24th June](#).



## NCCR OPEN POSITIONS

### Position in bioelectronics & wearable rehabilitation

The [Karlen lab](#) has an opening for a Postdoc position in bioelectronics and rehabilitation. [Read more](#)



## WE WILL BE AT:

### AUTOMATICA

21 - 24 June 2016

Germany

[Read more](#)



### International Robotics Showcase

01 July 2016

London

[Read more](#)



### DLMC 2016

13 - 15 July 2016

Germany

[Read more](#)



### Workshop on Robots for Learning

27 August 2016

New York

[Read more](#)



[Advanced Postdoc: Mobility](#)

[Cyber-Human Systems](#)

[DARS](#)

[DRONE BERLIN](#)

[FTC 2016](#)

[Grants4Tech - Robot Competition \(Bayer\)](#)

[Humanoids 2016](#)

[John Maddox Prize](#)

[Robotic Challenge 4.0](#)

[Soft Robotics Competition](#)

## External positions

[Post-Doc Position Robust & Optimal Control for In situ Digital Fabrication \(ADRL -ETH Zurich\)](#)

[Business Development Manager \(Flyability, Lausanne\)](#)

[PostDoc Position in implantable electronics for closed-loop gait tracking \(MHSL-ETH Zurich\)](#)

[Computer vision programmer / researcher \(Capsen Robotics\)](#)

[Drone Control Engineer \(Insightness\)](#)

[PhD position in Humanoid Manipulation \(Jaume I University, Spain\)](#)

[Junior Research Group: 'Multi-level Modeling in Motor Control and Rehabilitation Robotics' \(University of Tübingen, and University of Stuttgart\)](#)

## Interesting link

[Benchmarking Bipedal locomotion](#)

## NCCR Robotics Director

Prof. Dario Floreano

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## IMPRESSUM

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## NCCR Robotics spin funds featured in SPARC



Flyability and Fotokite featured in SPARC (the partnership for Robotics in Europe) [Read more](#)

More [press coverage](#) available through [NCCR Robotics website](#)

## **NEW VIDEOS**

### Flyability launch ELIOS



## **GUESS WHO?**

Can you guess who this NCCR professor is?

At the age of 18 this professor travelled to India with an association and had the opportunity of meeting Mother Theresa and the Dalai Lama. After high School he hesitated between studying physics, medicine, biology and architecture... [Read more](#)



## **NCCR INTERSHIPS**



### Meet the NCCR Robotics Internship Students

Read about the experiences at NCCR Robotics of some of our NCCR Robotics Master and PhD / Postdoc internship grantees.



#### Julia Nitsch

Julia is from Austria and attended Graz, University of Technology. She completed her internship on the project *Terrain Mapping* at [Scaramuzza Lab](#) last April. Julia was able to fulfil her planned objectives during the internship. [Read more](#)



## **NCCR ROBOTICS LAB'S PEOPLE**

### CHILI

The [Dillenbourg lab](#), CHILI, performs research on novel interfaces for learning, with a focus on learning in teams. In recent and current projects, they develop, explore and research novel interfaces for learning, such as tangibles, tabletop environments and paper-based interfaces.



#### Alexis Jacq (CHILI - EPFL)

Alexis is studying cognitive architectures for Human-Robot Interactions. His research focuses on mutual modelling in robotics: How robots can model other agents within social activities in order to solve misunderstanding situations.



#### Wafa Johal (CHILI - EPFL)

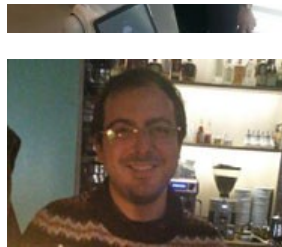
Wafa is a postdoctoral scientist at EPFL working on the NCCR Robotics Cellulo project. She has a PhD in Computer Sciences specialising in human-robot interaction, particularly on non-verbal cues for



interaction, particularly on non-verbal cues for communication and cognitive reasoning.

## Ayberk Özgür (CHILI - EPFL)

Ayberk is a PhD student at EPFL working in the Cellulo project concerned with novel tangible swarm robots and their integration into the classroom as the "pencils of tomorrow".



### SELECTED NCCR PUBLICATIONS \*

K. Baur, V. Klamroth-Marganska, C. Giorgetti, D. Fichmann and R. Riener, "Performance-based viscous force field adaptation in upper limb strength training for stroke patients," *In Biomedical Robotics and Biomechatronics 2016, 6th IEEE RAS & EMBS International Conference on*, 2016.

L. Marchal-Crespo, T. Baumann, D. Fichmann, S. Maassen, J. E. Duarte and R. Riener, "Evaluation of a Mixed Controller that Amplifies Spatial Errors while Reducing Timing Errors" *In 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, Orlando, 2016.

R. Sabzevari and D. Scaramuzza, "Multi-body Motion Estimation from Monocular Vehicle-Mounted Cameras" *In IEEE Transactions on Robotics*, 2016.

\*Selected publications include publications which have been made known to the [editor](#). All members are kindly encouraged to inform the management team of new publications.

### NCCR Robotics

[The Swiss National Centre of Competence in Robotics](#) (NCCR Robotics) is a federally funded programme bringing together robotics laboratories from EPFL, ETH Zurich, University of Zurich and University of Lugano to work on wearable, rescue and educational robots.

