

Dont miss out on our new section, *Guess who?*



## Control strategies for active lower extremity prosthetics and orthotics

Much has been made of the numerous advances in robotic prosthetics and orthotics (P/O) over recent years, and the question of how to control these devices so that they work in.. [Read more](#)



## Flyability announces completion of a seed round of financing

As announced in the [Swiss Startup news channel](#), [Flyability](#), a spin off company from NCCR Robotics announced the completion of its first external financing round of equity.... [Read more](#)



## Cyathlon at Tokyo 2020

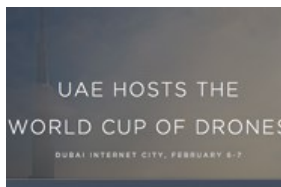
Negotiations with stakeholders of the [Summer Olympics 2020 in Tokyo](#) continue with discussions on how to transfer the [Cyathlon](#) or elements of it to Tokyo. Sign up for the [Cyathlon newsletter](#) and keep up to date with the build up to the event!



## CONGRATULATIONS

### Flyability wins UAE Drones for Good prize: 1M USD

[Flyability](#), a spin off company from NCCR Robotics have won the first [UAE Drones for Good competition](#) with Gimball, the world's first crash resilient drone. [Read more](#)



### RPG celebrates 3-year anniversary

Watch the [summary video](#) of the main achievements, projects, awards, exhibitions of [RPG](#) in the past three years.



### AAAI Video Competition winner

The Phase 1 CoWriter sub-project, A Robot Which Children Can Teach to Write, won Best Video of the AAAI competition. [Read more](#)



## NCCR OPEN POSITIONS

### Open positions at LIS

PhD Fellowships in Foldable Flying Robots  
Postdoctoral Fellowship in Control and Simulation of Drones / Postdoctoral Fellowship in Insect-inspired Vision for Drones / Technical Engineer in Embedded Electronics and Programming

LABORATORY OF INTELLIGENT SYSTEMS LIS



## ROBOTICS WORLD

### Top News

[UAE launches "Robotics for Good" competition on the heels of Drones for Good success](#)

[Flyability wins \\$1M Drones for Good competition](#)

[Introducing Spot, a new smaller 4-legged robot from Boston Dynamics](#)

[Recent robotics transactions](#)

[Programming safety into self-driving cars](#)

### World events

[Proxinnov \(Feb 17\)](#)

[RE.WORK Internet of Things Meetup \(Feb 18\)](#)

[Startup Weekend Lausanne \(Feb 20-22\)](#)

[Saphari NMMI Winter School \(Feb 20-25\)](#)

[Intl Expert Days Service Robotics \(Feb 25-26\)](#)

[EPFL Startup Essentials \(Feb 25\)](#)

[HRI 2015 - \(March 02-05\)](#)

[AUVSI's Unmanned Systems Europe \(March 03-04\)](#)

[European Robotics Forum \(March 11-13\)](#)

[Soft Robotics Week \(April 13-17- applications before Feb 28\)](#)

### External calls

[ICRA 2015 Soft Robotics Full-day Workshop Poster abstracts and Live Demos submission](#)

[Fifth Joint IEEE International Conference on Development and Learning and on Epigenetic Robotics Papers, Tutorials and Thematic Workshops](#)

[Hello Tomorrow Challenge](#)

[Paper Submission Hamlyn Symposium](#)

[The Public end-user Driven Technological Innovation](#)

[Living Machines 2015 - Call for papers](#)

[ARSO 2015 - sessions and papers call](#)

[RO-MAN - workshops, tutorials and papers](#)

[FM - call for papers](#)

[RAM Special Issue: Bioinspired Motor Control for Articulated](#)

## WE WILL BE AT:

### Talk: Pre-impact fall detection

17 February EPFL

[Read more](#)

### Augmented Human 2015

9-11 March

Singapore

[Read more](#)

### Eurobotics Forum

11-13 March

Vienna

[Read more](#)

### Just do it!

12-13 March

Dresden

[Read more...](#)

### TAR

12-13 March

Berlin

[Read more...](#)

### UN World Conference on Disaster Risk Reduction

14-18 March

Japan

[Read more...](#)

robotics<sup>+</sup> Education



[Robots - Call for Papers](#)

## External positions

[PhD student for MarineUAS project \(Marie Curie ITN H2020\) - Praha-Chodov-Honeywell](#)

[Postdoc and PhD positions - University of Bonn](#)

[PhD student openings in robotics University of Arkansas](#)

[Tenure-Track Assistant/Associate Professor University of Alberta](#)

[Autonomous Driving R&D Engineer: Planning and Decision Making-Bosch](#)

[two Research Associates in the fields of haptic teleoperation and haptic human-robot collaboration- The Bristol Robotics Laboratory, University of the West of England](#)

[Research Fellow possiitons in robotic exoskeletons-Sweden](#)

[Tenure track positions-Italian Institute of Technology](#)

[PhD and PostDoc positions available in Control of Networked and Cloud Robotic Systems-NCKU](#)

[Computer Vision & UAV Flight Algorithms Engineering Positions-Skybotix](#)

[Autonomous Driving R&D Intern-Bosch](#)

[Tenure Track Faculty Openings- University of Illinois](#)

Cool links by



**Anne-Christine Butty**  
Programme Manager

[Camp to camp](#)

[Nature](#)

[Strategyzer](#)

[Dilbert](#)

## Usefu Links

[UN policy on UAVs used in humanitarian situations](#)

## NCCR Robotics Director

Prof. Dario Floreano

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## IMPRESSUM

## START UPS INSIDE SWISS ROBOTICS

### Swiss Robotics

Swiss Robotics is an expanding and successful NCCR Robotics initiative that provides Swiss Start Ups with a unique opportunity to co-exhibit with NCCR Robotics at selected conferences and trade fairs. Discover some of these Start Ups:

**SWISS ROBOTICS**

### ROVENSO

The mission of [ROVENSO](#) is to design, manufacture and market agile Remote Operated Vehicles that preserve human life from hazardous situations that can occur in nuclear decommissioning or emergency response operations. [Read more](#)



## NCCR PRESS COVERAGE

### Revolutionary implant revitalises broken spinal cord

After the release of the [News Bulletin](#) last January announcing publication in [Science](#) of this revolutionary implant, the news went viral amongst international media including [BBC health](#).



## A Flying Robot that can Walk

Extensive media coverage followed the release of the [News Bulletin](#) last month, amongst which were [Robohub](#) and [IEEE Spectrum](#). It was also posted across the social media including by the [Consulate General of Switzerland in New York](#).



## Robots in Education

Séverin Lemaignan ([CHILI](#)) talked on the [Tribu show](#) (RadioTeleSuisse) on 6th February about robots of the future. You can listen to his interview on the [Tribu website](#).



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

## NEW VIDEOS

### Autonomous Christmas Lab



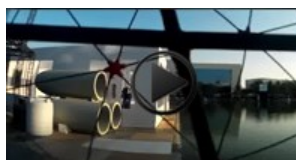
### Three year anniversary of the Robotics and Perception Group



### A flying robot that can walk



### Flyability win UAE Drones for Good competition



## GUESS WHO?



### Can you guess who this NCCR professor is?

His favourite hobby is magic which he started at the age of 6 when his father gave him a box of magic tricks as a present. He is now one of the youngest NCCR Robotics professors. [Read more](#) and find out.



## NEW MEMBERS

### Ehsan Karim ([LSRO](#))

Ehsan is a PhD student at LSRO, EPFL. He is interested in the design and control of simplistic biologically inspired robotic systems: aerial, mobile, and legged robots.



### Eduardo Feo ([IDSIA](#))

Eduardo Feo Flushing is a PhD student at IDSIA. His research focuses on swarm and wireless networked robotics, combinatorial optimization and meta-heuristics.



### Jérôme Guzzi ([IDSIA](#))

Jérôme holds a degree in physics from ETHZ and is pursuing a PhD in computational science at IDSIA. He focus his research on human-robot interaction, multi-robot systems and resilient path planning.



### Publisher

NCCR Robotics Management Team

### Editor

Mayra Lirot

### Web Editing

Mayra Lirot / Pascal Briod

### Contributor

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### Design

Alternative Communication SA / Pascal Briod



## DEPARTING MEMBERS

### Sahar El Khoury ([LASA](#))

After finishing her postdoctoral studies at LASA, EPFL, Sahar is due to occupy the position of data analyst in Zurich.



## SELECTED NCCR PUBLICATIONS \*

L. Daler, S. Mintchev, C. Stefanini and D. Floreano, "A bioinspired multi-modal flying and walking robot," *Bioinspiration & Biomimetics*, vol. 10, num. 1, p. 016005, 2015.

I.R. Minev, P. Musienko, A. Hirsch, Q. Barraud, N. Wenger, E.M. Moraud, J. Gandar, M. Campogrosso, T. Milekovic, L. Asboth, R.F. Torres, N. Vachicouras, Q. Liu, N. Pavlova, S. Duis, A. Larmagnac, J. Vörös, S. Micera, Z. Suo, G. Courtine and S. Lacour, "Electric dura mater for long-term multimodal neural interfaces," *Science*, Vol. 347 (6218), pp. 159-163, 2015.

M.R. Tucker, J. Olivier, A. Pagel, H. Bleuler, M. Bouri, O. Lamercy, J. del R. Millán, R. Riener, H. Vallery and R. Gassert, "Control Strategies for Active Lower Extremity Prosthetics and Orthotics: A Review," *Journal of neuroengineering and rehabilitation*, vol. 12 ( 1), p. 1, 2015.

\*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 Center 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.

