

Dear subscriber,

Your newsletter will be back in October. We wish you a pleasant summer break!



Early bird registration

The [Swiss Robotics Industry Day](#) early bird rate is available until 31st of August. We invite industry members to be part of this exclusive opportunity to gain insight of the Swiss Robotics ecosystem. [Read more](#)

SWISS ROBOTICS INDUSTRY DAY 2018



New NCCR Robotics Spin-off

The NCCR Robotics Spin Fund committee has granted Przemyslaw Kornatowski the Spin Fund for [Dronistics](#). Dronistics is the 11th NCCR Robotics Spin-off and is hosted at [Floreano Lab](#).

Lecture live streaming

[Prof. Kuchenbecker's recent lecture](#) at ETHZ was successfully broadcasted live at EPFL. NCCR Robotics now offers the possibility of live streaming lectures in order to further strengthen the link between partner institutions.



New EPFL Drone Days website

Visit the new [EPFL Drone Days](#) website and find out about the event! This year EPFL Drone Days will be taking place from 31st Aug - 02nd Sept. We look forward to seeing you there!



Yves Rossy, Jetman, tries the FlyJacket

Yves Rossy (Jetman) visited [Floreano Lab](#) last month and tried the FlyJacket. [Read more](#)



CONGRATULATIONS

ANYbotics in ICRA 2018 Robot Launch Startup Competition

The four-legged robot ANYmal, from NCCR Robotics spin-off [ANYbotics](#), led the way in the ICRA 2018 Robot Launch Startup Competition [read more...](#)



Two of our Spin-offs selected for the MC MassChallenge

NCCR Robotics spin-offs: [Feeltronix](#) and [Foldaway haptics](#), were selected amongst 66 other high potential startups. [Read more](#)



MyoSwiss received the W.A. Vigier Award

NCCR Robotics spin-off [MyoSwiss](#) received the W.A. de Vigier Award, with prize money of 100,000 CHF.



In this issue...

- Early bird registration -Swiss Robotics industry Day
- New NCCR Robotics Spin-off
- Lecture live streaming
- New EPFL Drone Days website
- Yves Rossy, Jetman, tries the FlyJacket
- Congratulations: ANYbotics, MC MassChallenge, MyoSwiss, IEEE TRO best paper award
- Calls: CYBATHLON 2020 Team registration is open! RSS 2018 Tutorial on Dynamical System-based Learning from Demonstration (LfD)
- Open Positions: ANYbotics / Dronistics
- We will be at...
- Press coverage
- New videos
- Selected Publications

ROBOTICS WORLD

Top News

- [Robots in Depth with Andrew Graham](#)
- [Teaching robots how to move objects](#)
- [Magnetic 3-D-printed structures crawl, roll, jump, and play catch](#)
- [Robots in Depth with Walter Wohlkinger](#)
- [Robots in Depth with Anouk Wipprecht](#)

World events

- [ACM Symposium on Computational Fabrication \(17-19 June\)](#)
- [Robotics and AI Summit: Advancing Manufacturing Competitiveness \(18-19 June\)](#)
- [Autonomous Machines World \(24-26 June\)](#)
- [Hamlyn Symposium \(24-27 June\)](#)
- [ICAPS \(24-29 June\)](#)
- [RoboUniverse & Drone \(28-30 June\)](#)
- [China International Robot Show \(04-07 July\)](#)
- [WoDC \(08-10 Aug\)](#)
- [SAB2018 \(14-17 Aug\)](#)
- [WCR \(Aug 30 - Sept 01\)](#)
- [RobArch 2018 \(10-15 Sept\)](#)

MyoSwiss helps improve the lives of people with limited mobility... [Read more](#)

IEEE TRO best paper award

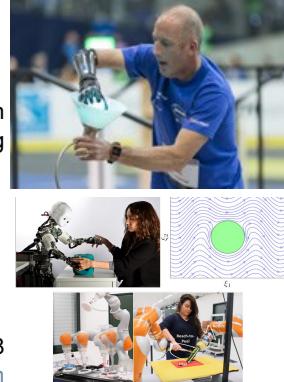
Scaramuzza lab received the TRO best paper award at ICRA 2018 in Brisbane, Australia for their paper on [IMU pre-integration](#).



NCCR ROBOTICS CALLS

CYBATHLON 2020 Team Registration is open!

CYBATHLON 2020 (2–3 May, Zurich) Team registration has started. [Read more](#) if you are interested in building a team and competing in one of the 6 disciplines.



RSS 2018 Tutorial on Dynamical System-based Learning from Demonstration (LfD)

Call from [Billard Lab](#) for Participation RSS 2018 [Tutorial on Dynamical System-based Learning from Demonstration](#) date: 29th June.

NCCR ROBOTICS OPEN POSITIONS

Four open positions at ANYbotics

NCCR Robotics spin-off [ANYbotics](#) has four open positions: Robotic Software Engineers in Locomotion Control, Navigation, Perception, and Inspection. [Read more](#)



Internships at Dronistics

NCCR Robotics spin-off Dronistics is looking for motivated and ambitious candidates for various internships: hardware, software, field tests and technical writer / documentation developer. [Read more](#)



2018 EVENT UPDATE - WE WILL BE AT:

Seminar: Bioinspired Robotics

26 June

EPFL

[Read more](#)



Summer School on Rehabilitation Technology

02-06 July

Velens

[Read more](#)



EPFL Drone Days

31 July - 02 August 2018

EPFL

[Read more](#)



SNSF Site Visit



sps automation (18-19 Sept)

DroneBerlin (25-26 Sept)

ROBO Business (25-27 Sept)

DRONE World Expo (1-3 Oct)

ROS (1-5 Oct)

IOT Solutions World Congress (16-18 Oct)

External calls

Interdisciplinary Summer School Humans in Motion - Der Mensch in Bewegung Perspectives from Sciences, Technology and Humanities (D/L 25 June)

CoRL (D/L 15 June)

The Second Smart UAV IntelliSensing Technical Competition (D/L 15 June)

IoT Solutions Awards (D/L 09 July)

Special issue on Recent trends in flocking control and communication for Unmanned vehicles (D/L 06 Aug)

Bioinspired and Evolutionary Computation Approaches towards Coping with Complexity in Human Machine Interaction (D/L 14 Sept)

esa Business Incubation Centres - Switzerland (D/L 28 Oct)

Equal Opportunities corner

Equal opportunity luncheon with Prof. Katherine Kuchenbecker, MPI Stuttgart

Start-up corner

Please find following links related to start-up support. If you would like to promote your events through our channel, please contact us at nccr-robotics@epfl.ch

StarUp Days

Ask the expert Learn more about financing your start-up: how to negotiate your Term Sheet, with Juliette Ancelle who will provide some tips and good practices in connection with this thematic. (19 June)

External positions

Lecturer in Autonomous Systems and Robotics (University of York)

Fellow Opening on "3D Perception and Learning for Humanoid Robot Locomotion/Manipulation" (iiit)

Interesting links

Socially Assistive Robots, with Maja Matarić

NCCR Robotics Director

Bern

**CoRL**

29- 31 October 2018

Zurich

[Read more](#)**Swiss Robotics Industry Day**

01 November 2018

STCC

[Read more](#)

SWISS ROBOTICS INDUSTRY DAY 2018

PRESS COVERAGE**Bienvenue en Suisse, dans la Maison des Drones**

La Suisse lance à Paris une campagne pour promouvoir son industrie du drone. «Agefi» publie un magazine spécial. [Read more](#) or [English Translation](#)

**A drone for last-centimeter delivery**

A new drone uses cutting-edge technology to deliver parcels weighing up to 500 grams. The device will never get stuck in traffic, it's programmed to avoid obstacles... [Read more](#)

**Les cours de robotique séduisent les jeunes**

Des jeunes filles et garçons ont reçu leur première attestation académique samedi dernier à la HES-SO Valais et à l'EPFL. Ils... [Read more](#) or [Read English Translation](#)

**Des cours de robotique pour jeunes filles de 11 à 13 ans**

C'est l'EPFL qui est à l'initiative sur ce projet original. Les cours sont destiné aux jeunes filles de 11 à 13 ans, avec le concours de la HES-SO. [Read more](#)



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

NEW VIDEOS**Flyability Introduces the Range Extender****PAMPC: Perception-Aware Model Predictive Control for Quadrotors****Auke Ijspeert: Animal Locomotion – Learning from Robots (WORLD.MINDS MOBILITY 2018)****ANYmal – Let Robots Go Anywhere**

Prof. Dario Floreano

CONTACT**NCCR Robotics**

Office MED 1 1526, Station 9
EPFL CH-1015 Lausanne
Switzerland

+41 21 693 26 67

nccr-robotics@epfl.ch

nccr-robotics.ch

For Technology Transfer enquiries
please contact:

Jan Kerschgens

IMPRESSIONUM**Publisher**

NCCR Robotics Management
Team

Editor

Mayra Lirot

Contributing Editors

Jan Kerschgens / Joëlle Mottier

Web Editing

Mayra Lirot

Design

Alternative Communication SA /
Pascal Briod

IMU Preintegration on Manifold for Efficient Visual-Inertial Maximum-a-Posteriori Estimation



NEW MEMBERS

Enrico Ajanic ([Floreano Lab](#))

Enrico is a PhD Student with an MSc in Mechanical Engineering with Aerospace from Univ. of Nottingham. His research focuses on development of bio-inspired, morphing drones and pursues the objective of expanding their flight envelopes.



SELECTED NCCR ROBOTICS PUBLICATIONS *

A. Loquercio, D. Scaramuzza, "Learning to Control Drones in Natural Environments: A Survey" ICRA18 Workshop on Perception, Inference, and Learning, 2018.

J. Paik, "Soft robot design methodology for 'push-button' manufacturing" Nature Reviews Materials, May 2018.

S. Perdikis , L. Tonin , S. Saeedi, C. Schneider, J. del R. Millán, "The Cybathlon BCI race: Successful longitudinal mutual learning with two tetraplegic users" PLOS Biology, May 2018.

M. C.S.Yuen, R.-B. Kramer, J. Paik, "Strain Sensor-Embedded Soft Pneumatic Actuators for Extension and Bending Feedback" IEEE RAS International Conference on Soft Robotics (RoboSoft), 2018.

Z. Zhang, G. Gallego, D. Scaramuzza, "On the Comparison of Gauge Freedom Handling in Optimization-based Visual-Inertial State Estimation" IEEE Robotics and Automation Letters (RA-L), 2018.

*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, IDSIA and UNIBE to work on wearable, rescue and educational robots.

Leading House



Co-leading House

