LATEST NCCR NEWS

Control of trunk posture to improve gait rehabilitation
Recently featured in "Scientific Reports", a rehabilitation robotic system that controls trunk posture in closed-loop improves locomotor performance during gait...Read more

NEW: EPFL Master’s in Robotics
We are glad to announce that EPFL has opened a 2-year Master’s in Robotics. The program provides well-rounded education and practical experience. Enrollment is now opened, application deadline: 15th of April 2018.

Communication Officer
We are pleased to announce that Joëlle Mottier has been appointed as the new the NCCR Robotics Communication Officer.

NEW Equal Opportunities Committee
The new NCCR Robotics Equal Opportunities Committee will be strongly committed to fostering and promoting equal opportunities and developing a series of effective new strategies.

CONGRATULATIONS

New Director of the Center for Neuroprosthetics
Stéphanie Lacour, Bertarelli Foundation Chair in Neuroprosthetic Technology, to succeed Olaf Blanke as Director of the Center for Neuroprosthetics. Read more...

PhD Public Defense
Péter Fankhauser (Siegwart Lab & Hutter Lab) defended his thesis "Perceptive Locomotion for Legged Robots in Rough Terrain" (video link) on January 17th. He will start a full-time position at NCCR Robotics spin-off ANYbots.

PhD Public Defense
Ayberk Özgür’s (Dillenbourg lab) public defense entitled "Cellulo: Tangible Haptic Swarm Robots for Learning" took place on 26th January at EPFL. Ayberk is planning to start a company based on the work from his PhD.

Internships and Fellowships
We are pleased to announce that three women Master’s internships and three PhD/Postdoc fellowships have been awarded for this year.

In this issue...

Control of trunk posture to improve gait rehabilitation
NEW: EPFL Master's in Robotics Communication Officer
NEW Equal Opportunities Committee
Congratulations: New Director of the Center for Neuroprosthetics; PhD Public Defense; Internships and Fellowships; IMD Start-up competition selected three of our spin-offs; MyoSwiss finalist in the ZKB Pionierpreis Technopark; Cybathlon: Guinness World Records 2018!
Calls: Conference on Collective Behavior; SNSF Project Funding Call
Open Positions
We will be at... Press coverage
New videos
New members
Departing members
Selected Publications

ROBOTICS WORLD

Top News
Learning robot objectives from physical human interaction
The millimeter-scale robot opens new avenues for microsurgery, microassembly and micromanipulation
Robotic interiors
New Horizon 2020 robotics projects: RobMoSys
Robotics innovations at CES 2018

World events
Robotics Slovenia (12-15 Feb)
SCHUNK Expert Days (28 Feb - 01 March)
STIL (01 March)
HRI (5-8 March)
European Robotics Forum (13-15 March)
DATE (19-23 March)

External calls
RoboSoft (Call for Late Breaking Results)
ICUAS 18 (Full papers )
PR (April 2018)
IMD Start-up competition selected three of our spin-offs
Three NCCR Robotics spin-offs, Feeltronix, Fotokite and TWICE were selected amongst 27 start-ups at the IMD Start-up competition. Read more

MyoSwiss finalist in the ZKB Pionierpreis Technopark
NCCR Robotics spin-off MyoSwiss, was recently selected as a finalist in the ZBK Pionierpreis Technopark. Read more

Cybathlon: Guinness World Records 2018!
Cybathlon appears as first competition for bionic athletes in the Guinness World Records. We also inform our readers that the 2020 Cybathlon registration is now open.

NCCR ROBOTICS CALLS
Conference on Collective Behavior
Dario Floreano is co-organizing a conference on Collective Behavior, 7-11th May in Trieste, Italy. Read more

SNSF Project Funding Call
Researchers can apply for coverage of research costs and staff salaries as well as for the funding of scientific cooperation, networking and communication; however, they may not apply for their own salaries. Read more

NCCR OPEN POSITIONS
Postdoc & PhD
Floreano lab currently has three open positions: Postdoc Multifunctional Drone Design, Postdoc or PhD fellowship in Evolutionary Computation / Robotics and one PhD in Multi-Modal Aerial Robots. Read more

2018 EVENT UPDATE - WE WILL BE AT:
NCCR Robotics Annual Retreat
8 - 9 March 2018
Bern
Read more

European Robotics Forum
13-15 March 2018
Finland
Read more

Hannover Messe
23-27 April 2018
Germany
Read more

External positions
Lecturer/Associate Professor in Robotics (Plymouth University)
Post-Doctoral Position in Design & Control of an Innovative Collaborative Gripper for Industrial robots (il)

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Feedback enhances brainwave control of a novel hand-exoskeleton

EPFL scientists are developing a lightweight and portable hand exoskeleton that can be controlled with brainwaves. Read more

EPFL: un exosquelette de la main contrôlé par la pensée (FR)

Des chercheurs de l’EPFL ont développé un exosquelette de la main léger, portable et contrôlable par les ondes... Read more

Feedback enhances brainwave control of a novel hand-exoskeleton

An extremely lightweight and portable hand exoskeleton may one day help the... Read more

This hand exoskeleton for people with paralysis can be controlled by brainwaves

People with limited mobility or paralysis could be able to use their hands again... Read more

Brain-controlled robotic hand enhanced by sensor feedback

This robot hand can be controlled by brainwaves and enhanced by sensor feedback... Read more

We recommend you to keep up to date with:

1. **CYBATHLON**: A competition for people with disabilities, showcasing innovative technology for improved mobility.
2. **DRONE DAYS**: EPFL Drone Days, an event for drone enthusiasts and researchers.
3. **SNSF Site Visit**: A site visit by the Swiss National Science Foundation.
4. **Swiss Robotics Industry Day**: An event for industry professionals in the robotics sector.
5. **Top News**: Key developments in robotics and neuroprosthetics.
6. **New videos**: Updated video content from the Swiss Robotics Industry.
7. **Press coverage**: Recent media coverage of robotics initiatives.
8. **External calls**: Opportunities for researchers to apply for funding.

**Future events**

- **2018**
  - **07-11 May**: Conference on Collective Behavior, Italy
  - **18-19 October**: SNSF Site Visit, Bern
  - **01 November**: Swiss Robotics Industry Day, Lausanne
  - **Swiss Robotics Industry**
    - **Switzerland**: 8-9 March
    - **Australia**: 21-25 May
    - **Italy**: 2-6 June, 7-10 November
    - **Germany**: 16-19 April
    - **Finland**: 8-9 March
    - **UK**: 13-15 November
  - **2019**
    - **March**: Conference on Collective Behavior, Italy
    - **4 June**: EPFL Drone Days, Lausanne
    - **25 January**: PhD Public Defense, EPFL
  - **2020**
    - **March**: ICRA, Australia
    - **25 September**: NCCR Robotics Annual Retreat, Switzerland

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**Selected publications**

Scientists from the Ecole Polytechnique Federale de Lausanne (EPFL) are developing a hand exoskeleton controlled by... Read more

More press coverage available through NCCR Robotics website

NEW VIDEOS

EPFL Drone Days

Feedback enhances brainwave control of a novel hand-exoskeleton

Péter Fankhauser – Doctoral Thesis Presentation

A drone for last-centimeter delivery

After some start-up difficulties, our robots have become great friends!

NEW MEMBERS

Adriana Arza (Atienza Lab)

Adriana is a postdoctoral researcher, her research interests include biological signal processing, analysis and interpretation of physiological data related to human stress measurement.

DEPARTING MEMBERS

Tomislav Miekovich (Courtine Lab)

Tomislav has started his own research group at the University of Geneva, supported by the SNSF Ambizione award. He works to develop neuroprostheses that restore lost function and translate them into clinical therapies.

SELECTED NCCR ROBOTICS PUBLICATIONS *

The program provides educational robots. We also provide video links for Guinness World Records. Atienza Lab, Hutter Lab (NCCR Robotics) is a Dillenbourg lab at EPFL. Currently, there are three open positions: Siegwart Lab, Dillenbourg lab, and R. R. R. Riener, "The Myosuit: Bi-articular Anti-gravity Exosuit That Reduces Hip Extensor Activity in Sitting Transfers," in Front. Neurorobot., 27 October 2017.


*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.