



(ROS) Introduction Course

This course from [Hutter lab](#), gives an introduction to the Robot Operating System (ROS) including many of the available tools that are commonly used in robotics. [Read more](#)



Magic Leap buys Dacuda's 3D Division

The Dacuda 3D division, with whom [Scramuzza lab](#) had 4 KTI projects in virtual reality, has been bought by the unicorn of virtual reality: Magic Leap. [Read more](#)



Approved Education Committee

The NCCR Robotics Steering Committee has officially validated the new members of the [Education and Society Committee](#) led by Francesco Mondada.



Best Paper Award at HRI

Congratulations to [Dillenbourg](#) and [Mondada Labs](#) for the Best Paper Award at [HRI 2017](#) conference for their work on the Cellulo Educational Robot. [Read more](#)



Margarita Chli amongst 25 women in robotics you need to know about

[Read more](#)



SensArs wins Venturekick support!

Congratulations to NCCR Robotics Spin Fund [SensArs Neuroprosthetics](#) for winning the Venturekick final. [Read more](#)



ICRA Workshop on Event-based Vision

Call for Papers, Extended abstracts and Live Demos! **Submission deadline 31st March 2017.** [Read more](#)

Workshop on Event-based Vision
1323 International Conference on Robotics and Automation (ICRA) 2017, Singapore

FSR 2017 - 11th Conference on Field and Service Robotics

FSR is a single track conference with a specific focus on field and service applications of robotic technologies. **Submission deadline 01st April 2017.** [Read more](#)



In this issue...

- (ROS) Introduction Course
- Magic Leap buys Dacuda's 3D Division
- Approved Education Committee
- Best Paper Award at HRI
- Margarita Chli amongst 25 women in robotics you need to know about
- SensArs wins Venturekick support
- Calls: ICRA workshop on Event-based Vision; FSR; SNSF R'Equip; Summer School on Rehabilitation Robotics
- We will be at
- Press Coverage
- New Videos
- New Members
- Selected Publications

ROBOTICS WORLD

Top News

- [Mind control: Correcting robot mistakes using EEG brain signals](#)
- [Should an artificial intelligence be allowed to get a patent?](#)
- [Reactions from experts: Robotics and tech to receive funding boost from UK government](#)
- [Cargo drones deliver in the Amazon rainforest](#)
- [3D-printed houses and cars on the horizon as manufacturing goes large](#)

World events

- [European Robotics Forum](#) (22-24 March)
- [DATE](#) (27-31 March)
- [Swiss Startup Summit](#) (29 March)
- [Deep Learning in healthcare summit](#) (28-01 March)
- [Automate](#) (3-6 April)
- [Innorobo](#) (16-18 May)
- [ICRA](#) (29 May-03 June)

External calls

- [Regular IROS paper submission](#)
- [RO-MAN - Call for Papers to Organised/Special Sessions](#)
- [Solutions World Congress](#)
- [2017 School and Symposium on Advanced Neurorehabilitation \(SSNR2017\)](#)

Start-up corner

SNSF calls

Research Equipment (R'Equip) Cutting-edge equipment for your research project: R'Equip is aimed at researchers in Switzerland who need top-quality, innovative equipment for their research work. **Submission deadline 15th March 2017.**

[Read more](#)



Summer School on Rehabilitation Robotics

The [Riener Lab](#) is organising a Summer School on Rehabilitation Robotics which will take place at the Biomedical Engineering School, Shanghai Jiao Tong University (SJTU). [Read more](#)



WE WILL BE AT:

CoWriter presented at GES Forum

18-19 March 2017

Dubai

[Read more](#)



European Robotics Forum

22-24 March 2017

Edinburgh

[Read more](#)



DATE 2017

27-31 March 2017

Lausanne

[Read more](#)



Hannover Messe

24-28 April 2017

Hannover

[Read more](#)



PRESS COVERAGE

Should robots be taxed for stealing jobs?

"If death and taxes are the only two things that a person can count on, should the latter apply to robots as well, as they take over jobs traditionally done by humans...?" [Read more](#)



GeekTime - Mother Nature may not always know best when it comes to robotics

"New research reveals that the way an insect walks may not be the best option..." [Read more](#)



Allegro Hand in Canada Discovery Channel

Iason Batzianoulis' work on the Allegro Hand from [Billard Lab](#), was featured on the [Canadian Discovery Channel](#).



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

[CTI Entrepreneurship Training](#)

External positions

[Electrical Engineer](#) (ANYbotics)

[Tenure-Track, Open Rank Faculty Position](#) (University of Southern California)

[Research Fellow in Bioinspired Control for Autonomous Systems in City Infrastructure](#) (University of Leeds)

[Electrical & Mechanical development for bioinspired legged robots](#) (Max Planck Institute for Intelligent Systems-campus Stuttgart)

[Postdoctoral Researcher in Persistent Mapping and Long-Term Autonomy for Mobile Robots](#) (University of Lincoln)

[Postdoc Research Fellow Positions on Robotics & Autonomous Systems](#) (University of Surrey)

[Research Associate or Senior Research Associate in Soft Robotics at Bristol Robotics Laboratory](#) (2 posts) (University of Bristol)

Interesting links

[How the octopus inspires surgical tools](#)

NCCR Robotics Director

Prof. Dario Floreano

CONTACT

NCCR Robotics

Office MED 1 1626, Station 9
EPFL CH-1015 Lausanne
Switzerland
+41 21 693 69 39
nccr-robotics@epfl.ch
nccr-robotics.ch

For Technology Transfer enquiries please contact:

[Jan Kerschgens](#)

IMPRESSUM

Publisher

NCCR Robotics Management Team

Editor

Mayra Lirot / Linda Seward

Contributing Editor

Jan Kerschgens

Web Editing

Mayra Lirot / Linda Seward

Design

Alternative Communication SA /
Pascal Briod

NEW VIDEOS

Micro Flying Robots: from Active Vision to Event-based Vision



Robert Riener talks to SRF about Cybathlon



Insect-Inspired Mechanical Resilience for Multicopters



Six-Legged Robots Faster Than Nature-Inspired Gait



ARGOS Training Day 1



Joint Efforts Towards Treating Paralysis



NEW MEMBERS

Marie Georgarakis

Marie is a PhD student at [Reiner lab](#), ETH Zurich. Her research focuses on rehabilitation engineering and soft wearable devices, with a special focus on human-machine interaction, and upper limb biomechanics and physiology.



SELECTED NCCR ROBOTICS PUBLICATIONS *

I. Batzianoulis, S. El Khoury, E. Pirondini, M. Coscia and S. Micera, "EMG-based decoding of grasp gestures in reaching-to-grasping motions", in *Robotics and Autonomous Systems*, vol. 91, p. 59-70, 2017.

R. Chavarriaga, M. Fried-Oken, S. Kleih, F. Lotte and R. Scherer, "Heading for new shores! Overcoming pitfalls" in *BCI design, in Brain-Computer Interfaces*, 2017.

D. Falanga, E. Mueggler, M. Faessler and D. Scaramuzza, "Aggressive Quadrotor Flight through Narrow Gaps with Onboard Sensing and Computing using Active Vision", in *IEEE International Conference on Robotics and Automation (ICRA)*, 2017.

M. Gassner, T. Cieslewski and D. Scaramuzza, "Dynamic Collaboration without Communication: Vision-Based Cable-Suspended Load Transport with Two Quadrotors" *IEEE International Conference on Robotics and Automation (ICRA)*, 2017.

J. E. Huggins, C. Guger, M. Ziat, T. O. Zander and D. Taylor, "Workshops of the Sixth International Brain-Computer Interface Meeting: brain-computer interfaces past, present, and future", in *Brain-computer interfaces*, 2017.

K. Lee, D. Liu, L. Perroud, R. Chavarriaga and J. d. R. Millán, "A Brain-Controlled Exoskeleton with Cascaded Event-Related Desynchronization Classifiers", accepted in *Robotics and Autonomous Systems*, 2017.

G. M. M. ... G. D. ... D. ... D. ... "Insect-Inspired Mechanical ...

S. Mintchev, S. D. de Rivaz and D. Floreano, "Insect-Inspired Mechanical Resilience for Multicopters" in *IEEE Robotics and Automation Letters*, 2017.

F. Mondada, M. Bonani, F. Riedo, M. Briod and L. Pereyre, "Bringing robotics into formal education using the Thymio open source hardware robot", accepted in *IEEE Robotics and Automation Magazine*, 2017.

E. Mueggler, H. Rebecq, G. Gallego, T. Delbruck and D. Scaramuzza, "The Event-Camera Dataset and Simulator: Event-based Data for Pose Estimation, Visual Odometry, and SLAM", *International Journal of Robotics Research*, Feb. 2017.

A. Ozgur, S. Lemaignan, W. Johal, M. Beltran and M. Briod, "Cellulo: Versatile Handheld Robots for Education", in *ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, Vienna, Austria, 2017.

A. Ozgur, W. Johal, F. Mondada and P. Dillenbourg, "Windfield: Learning Wind Meteorology with Handheld Haptic Robots" *ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, Vienna, Austria, 2017.

P. Ramdya, R. Thandiackal, R. Cherney, T. Asselborn, R. Benton, A. Ijspeert and D. Floreano, "Climbing favours the tripod gait over alternative faster insect gaits", *Nature Communications*, vol. 8, p. 14494, 2017.

R. A. Siegfried, S. Klinger, M. Gross, R. W. Sumner, F. Mondada and S. Magnenat, "Improved mobile robot programming performance through real-time program assessment", in *22nd Annual Conference on Innovation and Technology in Computer Science Education*, Bologna, July 3-5, 2017.

A. Ubeda, J. M. Azorín, R. Chavarriaga and J. d. R. Millán, "Classification of upper limb center-out reaching tasks by means of EEG-based continuous decoding techniques", *Journal of NeuroEngineering and Rehabilitation*, vol. 14, no. 9, 2017.

Z. Zhang, C. Forster, D. Scaramuzza, "Active Exposure Control for Robust Visual Odometry", in *HDR Environments IEEE International Conference on Robotics and Automation (ICRA)*, 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 and University of Lugano to work on wearable, rescue and educational robots.



SWISS NATIONAL SCIENCE FOUNDATION