

NCCR NEWS    

## RPG (UZH) release open source REMODE

RPG released an open source implementation of their approach for real-time, monocular, dense depth estimation, called "REMODE". It implements a "REGularized, probabilistic, MONocular Depth Estimation", as described in the paper. [Read more](#)



## 5th approved Robotics Spin Fund

NCCR Robotics Spin Fund committee has granted the Year 5 Spin Fund to Andrea Maesani for INTENTO. The early-stage start-up is hosted by [CNBI](#) (EPFL).



## NCCR Robotics Master's Internships

The Education Committee has awarded the Year 6 NCCR Robotics Master's Internships to seven students from around the world, who will be hosted by: TNE (EPFL) ASL (ETH Zurich), BioRob (EPFL), RELab (ETH Zurich), and IDSIA. [Read more](#)



## KTT Committee

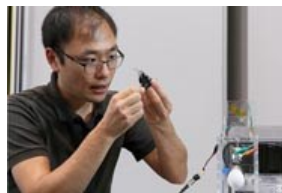
We would like to welcome Nicola Tomatis, CEO of [BlueBotics](#) as a member of the [NCCR Robotics Technology Transfer Committee](#).



CONGRATULATIONS

## Jun Shintake (LIS, EPFL)

Jun's public PhD thesis defense took place 29th January at EPFL. The title of his thesis was *Functional Soft Robotic Actuators Based on Dielectric Elastomers*. Jun will continue his research at LIS as a Postdoc.



## SensArs Neuroprosthetics

NCCR Robotics Spin-Fund SensArs, was amongst the selected 25 start-up winners of the IMD Award 2015/2016.

[Read more](#)



## 3 NCCR Robotics videos in the AAAI video contest

[Thymio](#), [Quadcopter Navigation in the Forest using Deep Neural Networks](#) and [Collaborative Navigation Flying and Walking](#), are all participating in the [AAAI video contest](#). Please "like" your favourite video on YouTube.



## In this issue...

[Cybathlon Symposium Call](#)

[RPG \(UZH\) release open source "REMODE"](#)

[5th approved robotics spin fund](#)

[Meet the NCCR Robotics members of ESL \(EPFL\)](#)

## ROBOTICS WORLD

### Top News

[NHTSA redefines "driver" of self-driving car](#)

[Robots Podcast #201: The Airbus Shopfloor Challenge, with Curtis Carson](#)

[Robotic assistants: Science meets fiction, with Carme Torras](#)

[What's new in robotics this week? Chameleon robot blends in with its surroundings](#)

[iRobot sells off defense & security division](#)

## World events

[Schunk Expert Days Service Robotics \(24-25 Feb\)](#)

[HRI \(07-10 March\)](#)

[Lausanne Technologies and Innovation Exhibition \(16 March\)](#)

[European Robotics Forum \(21-23 March\)](#)

[Artificial Intelligence and Autonomous Robotics \(23-24 March\)](#)

## External calls

[Abstract Award competition](#)

[Airbus Shopfloor Challenge at ICRA](#)

[BioRob 2016 \(call for papers\)](#)

[European Venture Programme](#)

[FUSION \(special sessions & tutorial proposals\)](#)

[IROS 2016 \(full length papers\)](#)

[PRIME 2016 \(Call for Papers\)](#)

[Prix Isabelle Musy 2016](#)

[Robo Business Europe \(Call for Speakers\)](#)

[Venture leaders in Technology New York For Swiss startups ready to take over the world](#)

## Cyathlon Symposium Call for abstracts

Call for abstracts for the Cyathlon Scientific Symposium (Zurich, 6th October, 2 days before the main [Cyathlon](#) event). Submission deadline: April 30th 2016. [Read more](#)



## WE WILL BE AT:

### ERF 2016

21-23 March 2016

Ljubljana, Slovenija

[Read more](#)



## NCCR PRESS COVERAGE

### TED Talk

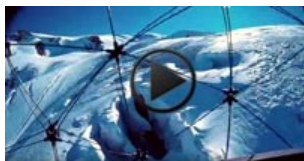
[Auke Ijspeert: A robot that runs and swims like a salamander](#)



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

## NEW VIDEOS

### Flyability Gimball flies in crevasse



### 4 gram robogami that crawls and jumps



### Get a Grip with Soft Electronics



### ETH Knee Pertubator



## GUESS WHO?

Can you guess who this NCCR professor is?

For a long time this professor was not sure what to study (until a few weeks before starting to study to be precise), He was interested in quite a lot of different topics, ranging from biochemistry, to atmospheric physics, to Computer Science. [Read more](#)



## NEW MEMBERS

### Alexander Millane [ASL](#) (ETH Zurich)

Alexander recently joined as a PhD student at the Autonomous Systems Laboratory at ETH Zurich. His research interests include collaboration and perception in the context of robotic systems.



## NCCR ROBOTICS LABS - MEET THE PEOPLE

[Venture leaders in Life Sciences Boston For Swiss startups ready to take over the world](#)

[We Robot \(poster session\)](#)

[Workshop for high-tech ideas that think they may want to become start-up companies](#)

## External positions

[Postdoctoral Researcher in Soft Robotics with Flexible Electronics \(Riken / Japan\)](#)

[Multiple PhD Openings in Robotics \(Univ. of Arkansas\)](#)

[PhD position in whole-body University of Edinburgh's Centre for Robotics](#)

[Postdoc Openings in Soft Manipulation \(iit\)](#)

[Postdoctoral position \(Univ. Bristol\)](#)

[Research Assistant / Associate - Imperial College London](#)

## Interesting link

[Women considered better coders—but only if they hide their gender](#)

## NCCR Robotics Director

Prof. Dario Floreano

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## IMPRESSUM

### Publisher

NCCR Robotics Management Team

### Editor

Mayra Lirot

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## Embedded Systems Lab ([ESL](#), EPFL)

[ESL](#), headed by David Atienza, focuses on the definition of system-level multi-objective design methods, optimisation methodologies and tools for high-performance embedded systems and nano-scale Multi-Processor System-on-Chip (MPSoC) architectures. [Read more](#)



## Fabio Dell'Agnola ([ESL](#), EPFL)

Fabio is a PhD student at ESL (EPFL), and performs research on wearable embedded systems.



## Srinivasan Murali ([ESL](#), EPFL)

Srinivasan is a co-founder of SmartCardia, an EPFL spin-off, and a collaborator with ESL (EPFL).



## SELECTED NCCR PUBLICATIONS \*

L. Marchal-Crespo, D. Novak, R. Zimmerman, O. Lambercy, R. Gassert and R. Riener, "Detecting motion intention in stroke survivors using autonomic nervous system responses", in *Rehabilitation Robotics (ICORR), 2015 IEEE International Conference on*, pp.1003-1007, 11-14 Aug, 2015

P. Moseley, J. M. Florez, H. A. Sonar, G. Agarwal and W. Curtin *et al.*, "Modeling, Design, and Development of Soft Pneumatic Actuators with Finite Element Method", *Advanced Engineering Materials*, 2015.

J. Shintake; S. Rosset; B. Schubert; D. Floreano and H. Shea, "Versatile soft grippers with intrinsic electroadhesion based on multifunctional polymer actuators" *Advanced Materials*, vol. 28, no. 2, pp. 231-238, 2016.

H. A. Sonar and J. Paik. "Soft Pneumatic Actuator Skin with Piezoelectric Sensors for Vibrotactile Feedback", *Frontiers in Robotics and AI*, 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 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.



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Images courtesy of: (Cybathlon) Alessandro Della Belle and ETH Zurich; (Jun Shintake) Alain Herzog