



## UZH Space Hub Newsletter



Dear Members of the UZH Space Hub

Happy new year to all of you! We are going to start 2020 with a special event: next Monday, January 13, we will host a one-day workshop about Bartolomeo, the new platform operated by AIRBUS and, of course, you are all invited. Registration is free but required, please read below for more details. Moreover, do you know that we are active on LinkedIn and Twitter? You can follow us on [UZH Innovation](#) and [UZH Space Hub](#) respectively, but also share your work and news with us: feel free to send us texts about your current job, so we can publish them on our channels.

Have a nice read and best wishes,

UZH Space Hub Team

## News and Activities

University of  
Zurich <sup>UZH</sup>

### GIVING SCIENCE WINGS

Innovation Cluster Space and Aviation, University of Zurich  
(UZH Space Hub)

### UZH Space Hub Video

The UZH Space Hub is growing fast and our visibility is already expanding beyond Switzerland and even Europe, all around the globe. To help promote our visions and goals we produced a short corporate video that was presented at the 70th International Astronautical Congress in Washington, D.C. (<https://www.iac2019.org>) in October 2019. Many of you have contributed to the production, and for those of you who have not yet seen the result or for those who would like to look at it once more, it can be found at this [link](#).



### Bartolomeo Presentation

As already anticipated, next Monday, January 13, Airbus Defence and Space is going to introduce Bartolomeo services and its capabilities to the Swiss Space community. In the first part of the event, you will learn what Bartolomeo is and how it can help you, by bringing instruments and payloads to the International Space Station quickly and at a reasonable cost. In the second part, you will have the opportunity to join bilateral meetings with Airbus representatives. You can see the [full program here](#).

The event is free, but please note that for organizational purposes pre-registration is required.

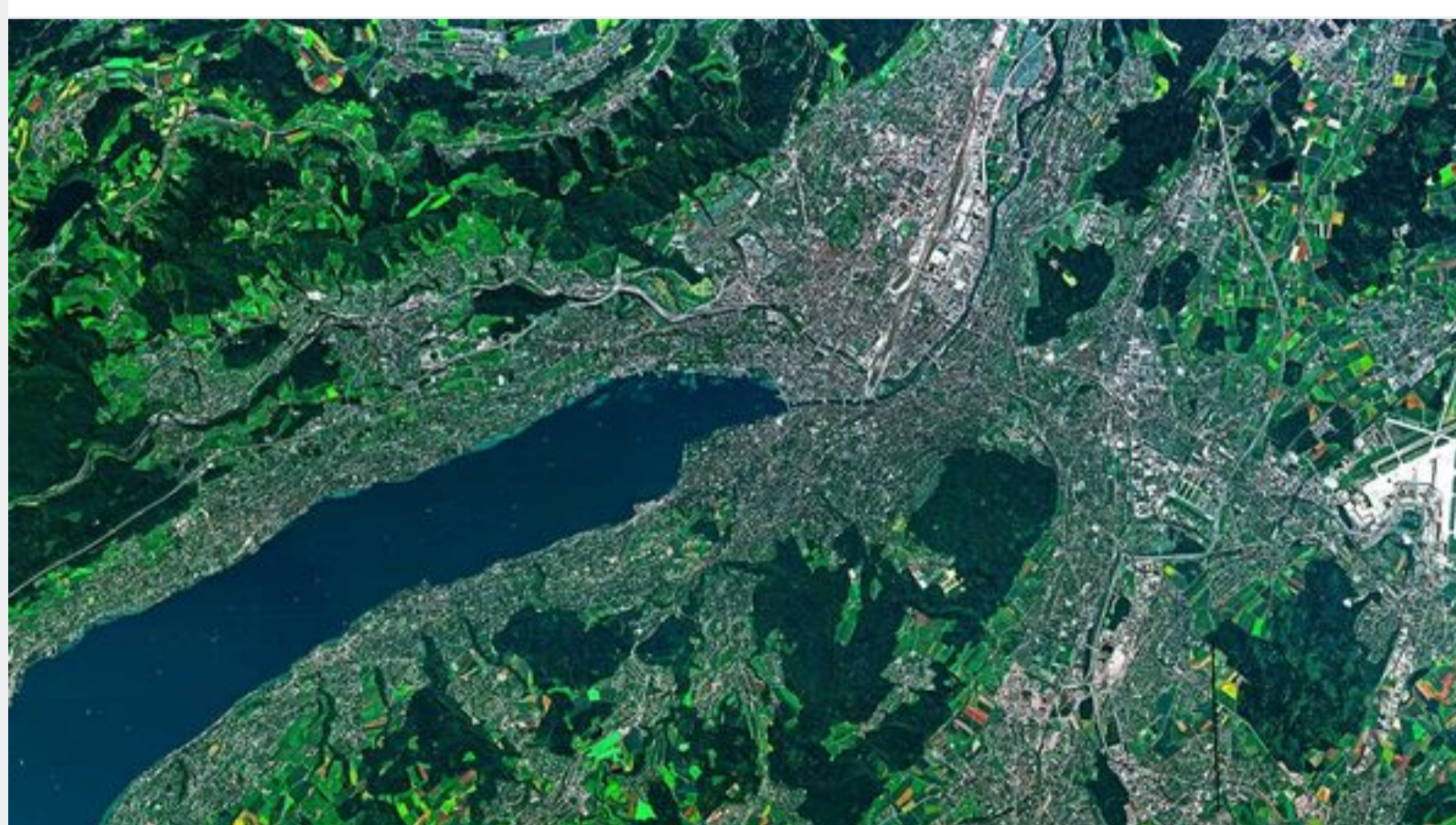
[Registration](#)



### Robotics and Perception Group wins the NASA Tech Briefs

We would like to congratulate **Davide Falanga** and **Davide Scaramuzza**, member of the UZH Space Hub, and the entire team from the Robotics and Perception Group for winning the NASA Tech Briefs "Create The Future Design Contest" 2019 in the category Aerospace & Defense. They developed a foldable drone that has its rotors mounted to four independently rotating arms and can therefore change and minimize its size. This new and innovative quadrotor is fully autonomous relying on onboard visual-inertial sensors and computing. It is able to maneuver through buildings and enclosures without telecontrol and is supposed to support rescue teams whenever it is too dangerous for terrain inspection by humans. Well done! Finally, we are sure we will hear more from this group since Davide Scaramuzza also won an [ERC grant](#), so double congratulations!

For more information, see this [video](#) or visit the group [webpage](#).



### ARES Project

Linking ground to space: the new website of the Airborne Research Facility for the Earth System (ARES) project is online. ARES will operate highly sensitive instruments on board of an aircraft to generate detailed pictures of the Earth. The uses are manifold: satellite calibration, establishing satellite sensors, agricultural management, food security, ecosystem monitoring, and environmental protection. The project is led by Prof. Michael Schaepman and Dr. Andreas Hueni, both part of the Remote Sensing Laboratories, in the department of Geography, and members of the UZH Space Hub. Newest laser scanning and spectroscopic techniques acquire information about the shape, structure and reflectance of ground and vegetation. More than 500 km<sup>2</sup> (70.000 soccer fields) can be observed per day. The collected information fills a gap between ground-based and satellite-based imagery. Because of the national and international scientific and public needs for such an infrastructure, ARES has been listed in the "Roadmap Forschungsinfrastrukturen 2019" of the State Secretariat for Education, Research and Innovation (SERI), and suggested to the federal council in view of the "Botschaft zur Förderung von Bildung, Forschung und Innovation" 2021-2024. We are proud to have this exciting project in the UZH Space Hub!

[Read more](#)

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