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Aerial Robots on Glaciers

Michael Pantic 25. August 2022







... we do (flying) robots!



Fundamental Challenge

Pushing state-of-the-art robotics research to a real and tough environment!



Sensors, Algorithms, Hardware - some of the first robotics datasets in glacial environments!



Logistics, Weather, Supplies

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Robotics Research in and for the glacial environment



Digital Twins

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SPI Technogrant funding

Logistics, Accommodation, Travel (you'll need lots of this)









Engineering, Material (you'll need lots of this)



SPI also helps with outreach & networking!

- SPI fieldnotes & twitter
- Research featured in
 - Foreign Department's Polar Research publication
 - the Arctic Circle Assembly meeting

SwissPolarInstitute @SwissPolar

Drilling an ice core from a drone? Impossible? Take a look at the video This system developed by @ASL_ETHZ, @UZH_en, @HZG_de and @AarhusUni with support from @Swisspolar, will allow autonomous retrieval of ice cores from glaciers



1:57 PM · Sep 11, 2020 · Twitter Web App

150 Retweets 43 Quote Tweets 492 Likes



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Michael Pantic Guillaume Jouvet Thomas Stastny Marco Job Christian Lanegger David Rohr Tim Kazik

A great opportunity to

apply your research in a really tough environment

and contribute to polar research!







Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie