

The future is now!

Autonomous Aerial Robotics for Infrastructure Inspection

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WHO ARE WE?

ROBOTICS TEAM

at Luleå University of Technology



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Head of Robotics Team



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Post-Doc



Dr. Avijit Banerjee
Post-Doc



Dr. Georgios
Georgoulas
Post-Doc



Dr. Christoforos
Kanellakis
Post-Doc



Dr. Petros Karvelis
Post-Doc



Dr. Anton Koval
Post-Doc



Dr. Rucha Sawlekar
Post-Doc



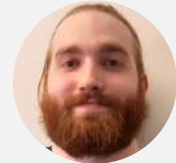
Post-Doc



Hedyeh Jafari
PhD Student



Samuel Karlsson
PhD Student



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Sharif-Mansouri
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Andreas
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Summeet
Satpute
PhD Student



Moumita
Banarjee
PhD Student



PhD Student



Jakub Haluska
Research Engineer



Dariusz Kominiak
Research Engineer

RAI AREAS OF PRIMARY FOCUS

- Aerial robotics
- Inspection robotics
- Service robotics
- Autonomous cars
- Medical robotics
- Biorobotics
- Industrial robotics
- Robotized farming
- Construction robotics
- Marine robotics
- Space robotics
- Underwater robotics



Innovation Background



FIELDROBOTIX



ROBOTICS TEAM
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Our research is included in IVA's 100 List 2020, a list of research projects focusing on sustainability with significant potential to benefit areas such as business and method development or to have a positive impact on society.



Research2Business
IVA's 100 List

Regional
INNOVATOR
OF THE YEAR 2019

WE HAVE WON THE 2nd STAGE OF DARPA SUB-T COMPETITION



DARPA **DARPA SUBTERRANEAN CHALLENGE**

Tunnel Environment Urban Environment Cave Environment

Artist's Concept

3 Sub-Domains
Tunnel Systems • Urban Underground • Cave Networks

2 Competition Tracks
Systems Track • Virtual Track

1 Revolutionary Vision
Create breakthrough technologies and capabilities for underground operations

Learn More at www.darpa.mil

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Late Nights, Cool Hacks, and More Stories From the DARPA SubT Urban Circuit

Everything you didn't see on the live stream at the
DARPA SubT Challenge

By Evan Ackerman



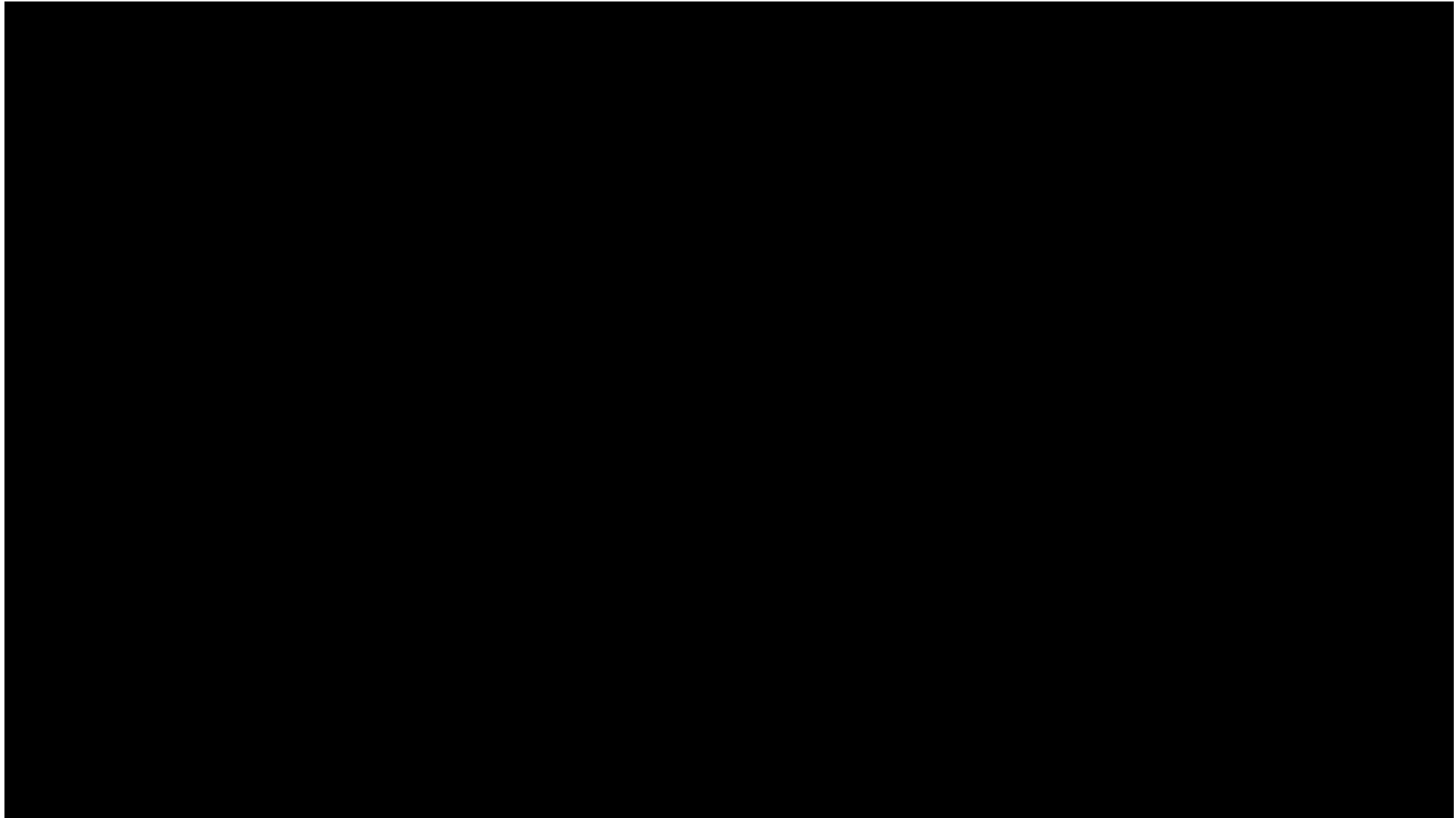
Fully Autonomous Tunnel/Underground Inspection



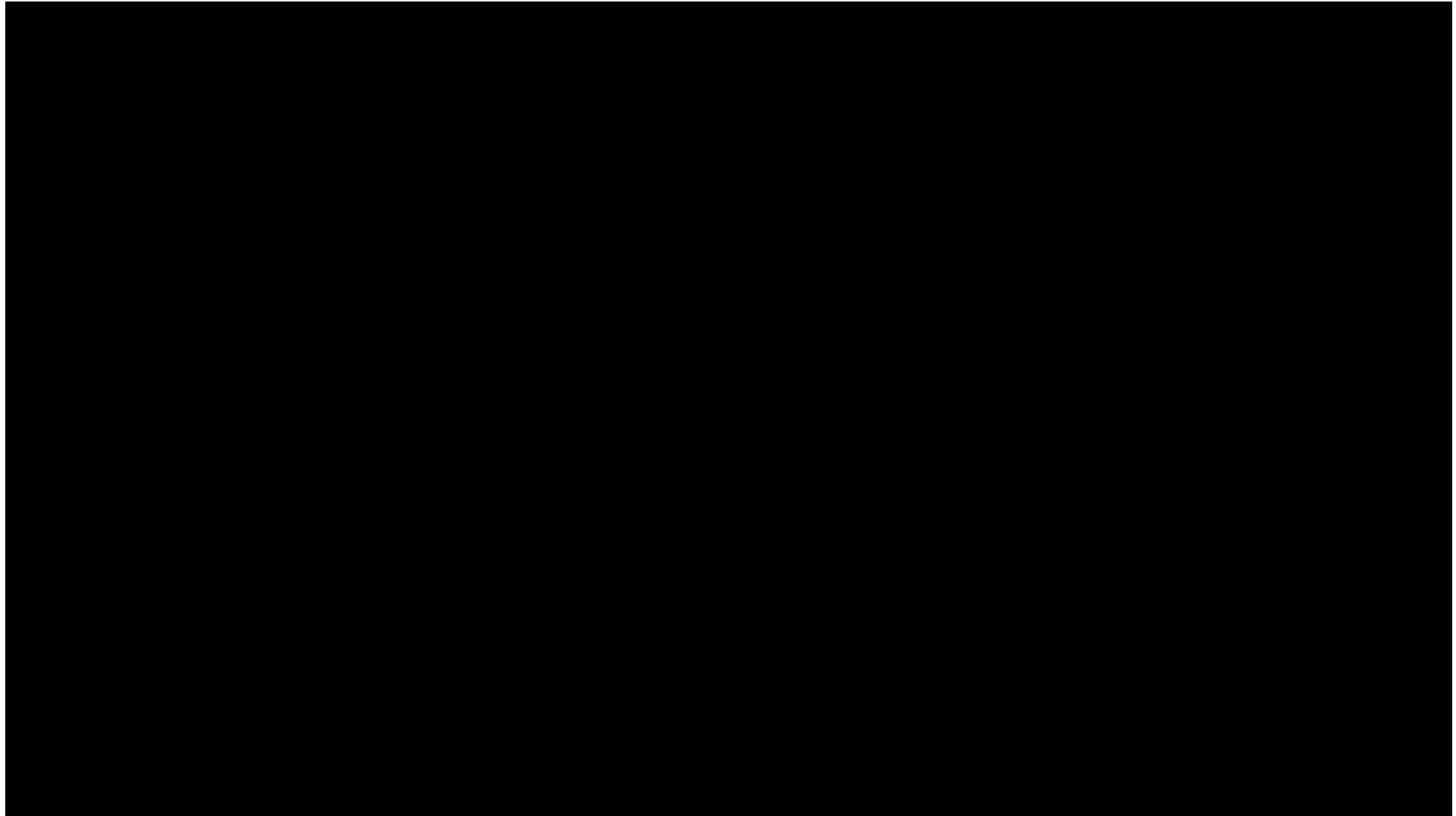
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LULEÅ
UNIVERSITY
OF TECHNOLOGY

Fully Autonomous Aerial Inspection of large infrastructure



Fully Autonomous Bio-Inspired Inspection of surfaces



Thank you!

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