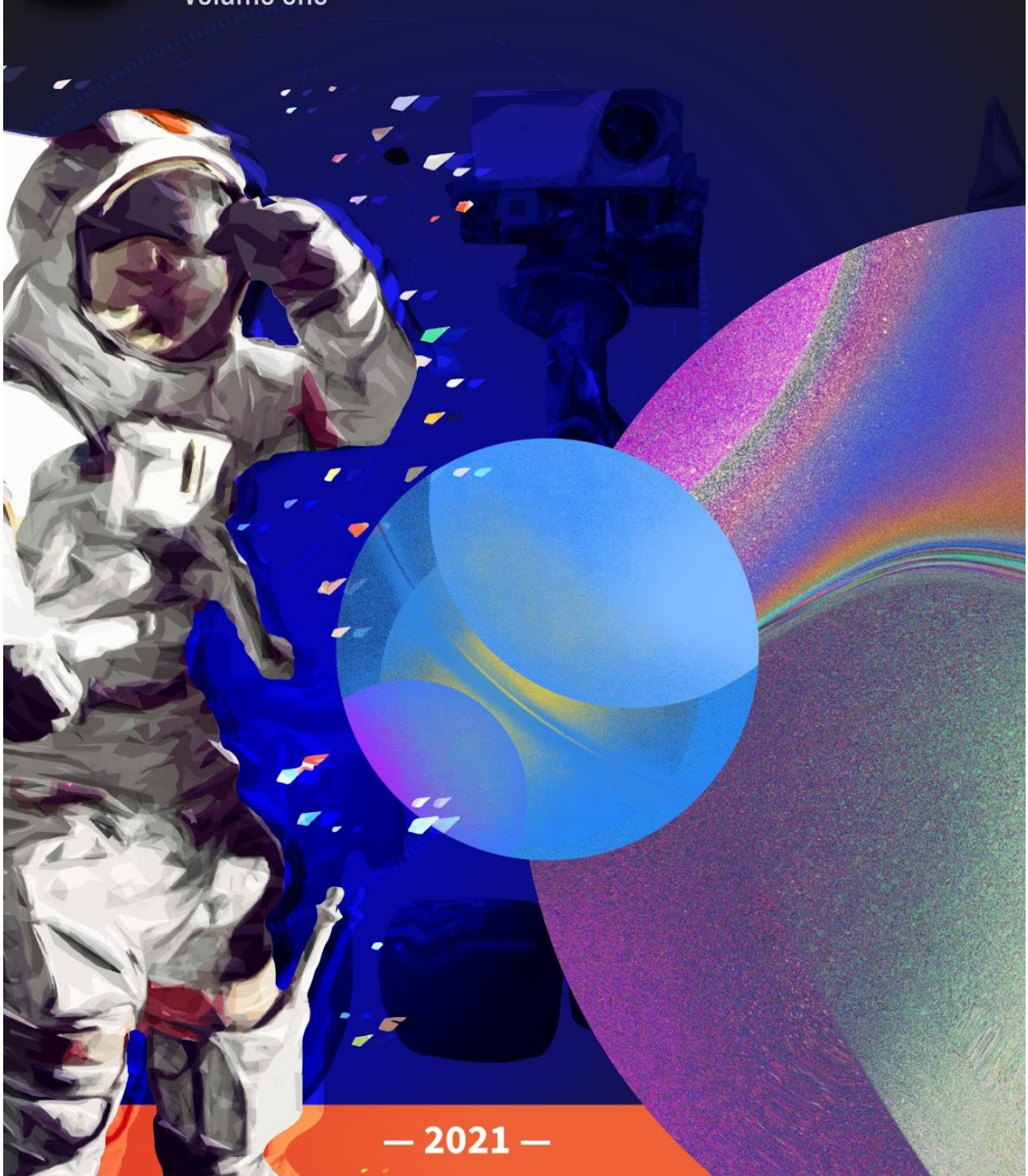




Infoguide

volume one



— 2021 —

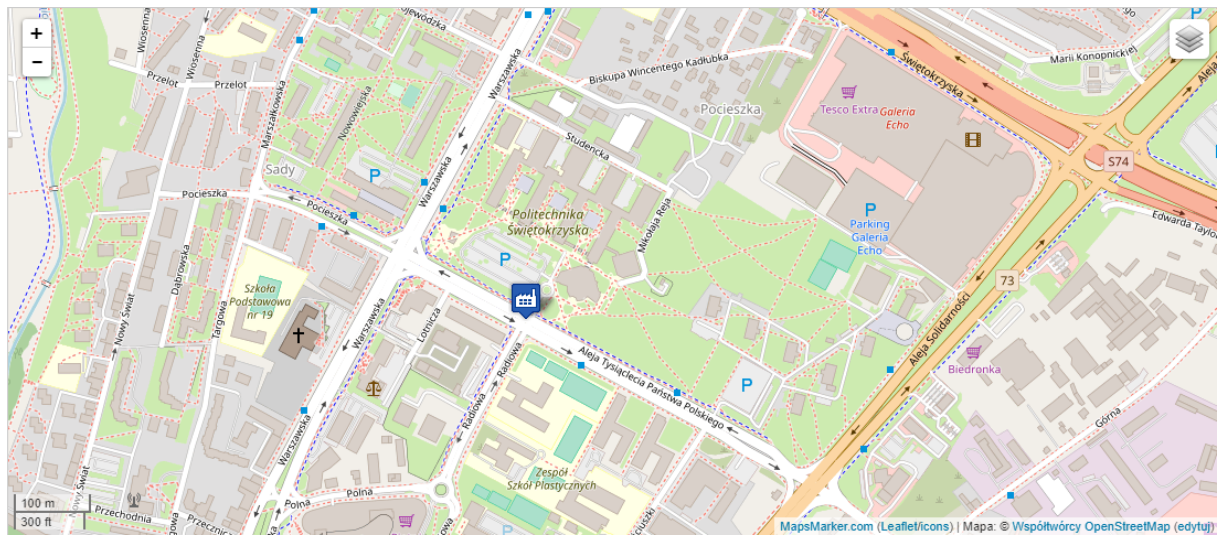
European Rover Challenge

VII EDITION

10th-12th September 2020

Kielce University of Technology [University Campus]

Kielce, Poland



About ERC

The ERC Space and Robotics Event is a prestigious space-robotics event combining international competitions of mobile robots with scientific and technological shows.

Guided by the slogan “we inspire a new generation”, we have been bringing the cosmos closer to the general public and making people aware of the growing role of modern technologies in our lives for six years now. ERC is also a meeting place for representatives of the European world of science and business interested in the use of space and robotic technologies.

Among the special guests of previous ERC editions, you could meet, among others Steve Jurczyk – Associate Administrator of NASA, Harrison Schmitt – NASA astronaut and member of the legendary Apollo 17 mission, or Tim Peake – an astronaut of the European Space Agency, who ran the London Marathon during his stay on the International Space Station.

The main part of the project is an international robotics competition, where academic teams from around the world present their mobile robot designs, competing in competitions based on real ESA and NASA missions. The competition takes place on the world’s largest artificial Martian track, that is directly derived from the surface of the Red Planet. This year’s edition will be the first that is organized in hybrid form. Competitors from several continents will remotely control the robot, physically moving along a track located in Poland, on the campus of the Kielce University of Technology.

Since 2020 we added remote competition - first as a way to replace on-site contest which could not happen in the midst of last year's pandemic situation, but due to a positive feedback from teams that took part in it we decided to add it as an integral part of ERC as a whole.



REGISTRATION FOR EUROPEAN ROVER CHALLENGE

Registration deadline: 28th of February 2021

ERC 2021 Rules and proposal template can be found on our website here:

<https://roverchallenge.eu/en/competitor-zone/>

How to apply?

1. Find the PROPOSAL TEMPLATE on the website
 2. Fulfil the PROPOSAL template with the information about your team.
 3. Find the [Consent to the processing of personal data on website](#)
 4. Print and sign the Consent to the processing of personal data
 5. Send an email with the application and scan of the Consent to the processing of personal data (with signature) at TEAMS@ROVERCHALLENGE.EU before the deadline.
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Meet the Jury!

Marcin Wygachiewicz - Head of the Jury Board

- Project Manager at SENER Poland
- President of the Board of the Polish Space Professionals Association.
- Master's Degree in Automation and Robotics (AGH University of Science and Technology) as well as in Digital Signal and Image Processing (Cranfield University)



I have been working at SENER Poland since 2015. Previously, I worked as a Design Engineer for one of the leading manufacturers of turbine components for the Oil & Gas and aviation industry. Then I worked as YGT in the Mechanisms Section of the European Space Agency in ESTEC, Netherlands.

At SENER Poland, I am responsible, among others, for development of deployment mechanisms and hold-down and release mechanisms (ATHENA, PROBA-3, SAOCOM) and the clamping mechanism (e.Deorbit).

This is the fourth edition of the European Rover Challenge during which I am involved in judging the competition as well as evaluating presentations and documentation provided by the teams.

Inspiration for this year's ERC edition – combining tasks allows us to get closer to the real space missions. In case of those there is no time for any significant changes of rover's configuration. Furthermore, it adds the opportunity to assess strategy planning abilities of teams.



Szymon Dzięcioł - Head of the Remote ERC

"I'm a cofounder of Leo Rover, a mobile robot used by the teams in the Remote Edition. I came a full circle from being a coordinator of Project Scorpio team (Wrocław University of Technology) who won the first ERC and didn't win twice in URC, then being a judge and a commenter in two ERCs, running a company in mobile robotics and ended up coming back as a partner and coorganizer of the competition. I've been on both sides of the Challenge and can honestly say: it's great to be back."



COMMUNICATION CHANNELS

ERC is not only about robotics and engineering. **It is about the PEOPLE.**

Take a chance and get to know the people from all around the World who are sharing the same passion as you.

Involve all the team the discussions about the ERC tasks, challenges and career-development plans. Or the talks and exchanging the experiences based not only on the robotics competitions with the other ERC competitors.

Meet us on Mattermost!

1. Use the invitation link:
https://mattermost.roverchallenge.eu/signup_user_complete/?id=781oed37mjnh7y19dmgig9og9a If you have problem with this link, try to use Google Chrome or copy and paste it manually to your browser – in our experience it solves most of the problems.
2. In your nickname (that is visible for all users), please, put the TEAM NAME to make it easier to recognize you, for example, JohnDoe_<team_name>. <team_name> should be short version ideally max 8 characters (this limit is not sharp-obligatory but it will make things easier for all of us), identifying well your team and the same for all team members.
3. Encourage all your team members to be active in Mattermost discussion
4. Join the public channels that have been already created in the Mattermost ERC_community team (just click "More..." below the "Off-topic" and "Town Square" channels).
5. You can create the Private Channels for your own use. It is highly recommended for each



(@konrad_lippert). It will be useful for you to talk about the issues that you don't want to expose publicly in the forum. If you want to talk about something in private channel with us, please – invite the ERC team Coordinator to YOUR TEAM'S PRIVATE CHANNEL to receive the most convenient connection with ERC Team members or ERC judges.

Please, do not use the private, direct messages to ask the questions. Always use your team's channel.

6. To keep the ERC-community team nice and tidy, please, use appropriate channel-topic. Take into consideration if your question is about On-site or Remote edition. If you want to start the conversation in other cases – choose the Off-topic channel or propose creating the new channel in Town Square channel.

Do not create the public channels on your own – it may cause a mess.

Meet us on facebook group for teams!

To share the personal experiences and maintain relations which started on ERC join the [European Rover Challenge Community](#) group on Facebook!

