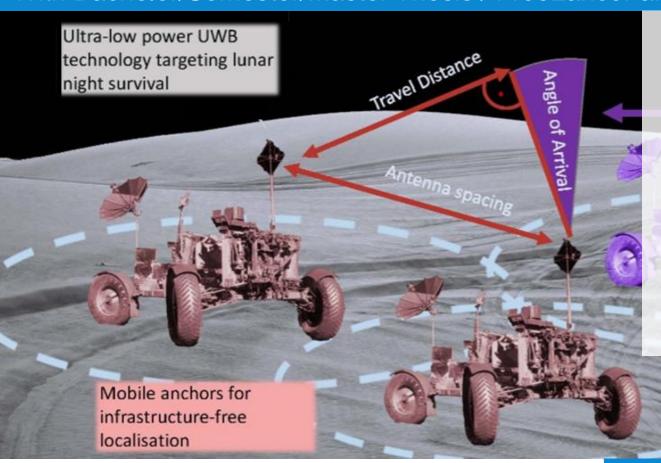
PBL Flagship Project 2024 Localization for Robotic Swarms

With Bachelor/Semester/Master Thesis / FreeLancer and Staff at PBL



Would you like to develop an energy-aware infrastructure-free localization system targeting autonomous robotic swarms for future missions on the lunar south pole?

Would you like to work with embedded systems with extreme requirements regarding autonomy, robustness, and energy efficiency?

We are looking for students to design an energy-aware UWB-based localization system for a dynamic swarm of robots. Targeted skills are:

- PCB Design and System Integration
- HF Simulation
- Wireless Communication and Firmware Design
- Hardware-software Co-design
- Robotics and Control

Machine learning assisted formation strategies for power-optimisation



Project in collaboration with:







Find this and more projects at PBL https://pbl.ee.ethz.ch/project.html
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