



BA/MA/SA/Group/Lab:

Emergency Localization

Hiking, climbing and other outdoor activities are getting more and more popular. As a result, there are also more accidents in remote areas. Of course, there are several systems that can help you when you run into trouble. Firstly, your mobile phone can probably locate itself using GPS. If you are lucky, you might even have cell reception and are able get yourself some help. If you need a more reliable way to trigger an alarm, there are satellite trackers that allow you to do so and inform rescue services about your location.

However, many people do not carry such systems at all times. This is why every year, people go missing in the alps. Search and rescue is expensive and time consuming and some people cannot be found even after extensive search operations.

We believe that we can improve the efficiency of search and rescue missions. This project is offered in collaboration with the Computer Vision and Geometry Group. Depending on your interests, The project can be tailored to many different skill sets ranging from signal processing, SDR development to designing localization schemes for the scenario at hand. Please feel free to present your own ideas.



Requirements: Creativity and good programming skills and advantageous. The student(s) should be able to work independently on this topic!

Interested? Please contact us for more details!

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