



BA/MA/SA/Group/Lab:

## Aircraft Positioning System

While GPS is great for outdoor localisation, it does not work well indoors because the received signal strength is very low. As an indoor alternative, for instance WiFi base stations are leveraged, using identifiers, signal strength or “fingerprints”. However, these techniques are not very accurate, and worse, have limited range, which means that coverage is not guaranteed and it is a challenge to keep up to date with equipment changes.



In our group, we have developed a system using aircraft signals for handset localisation. Compared to GPS, the received power of aircraft signals is much higher. Also, aircraft signals can be received hundreds of kilometers away.

The goal of this project is to improve the current prototype system in terms of accuracy and ease of use. Most importantly, the main error sources should be identified through experiments.

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

**Interested? Please contact us for more details!**

### Contacts

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