



BA/SA/Group/Lab:

Accurate Weather Forecast

For millennia people tried to foresee the weather informally and since the nineteenth century also formally. In the early days predictions of the weather were akin to magical guesses, whereas today lots of time and money are invested in predicting the weather fast and precisely. Also the uses of a weather forecast has broadened: While in the past the forecast was mainly interesting to determine when would be the right time to harvest, today's accurate weather forecasts help us, for example, to plan and organize trips, events, or to estimate the risks in outdoor activities.

The internet offers a lot of services to predict the weather all over the world. Unfortunately, we usually do not know which of these services are the most reliable. Especially if we go abroad, we don't know in advance which of the weather forecast sites we should use since we do not have any information on how well a sites' predictions are for a given region. Which of them are right more often than others? Do some websites predict the weather correctly at an earlier point in time? The goal of this thesis is to gather data from different services and compare their performance in order to be able to answer questions like: "Which forecast should be used to predict the weather in Lausanne in 6 days?" or "Which forecast should be used to predict the weather at 1 o'clock in the afternoon in Berlin?"



Requirements: Requirements: Creative thinking, advanced programming skills, the determination to put your ideas into action, and the ability to work independently are necessary to work on this topic successfully.

Interested? Please contact us for more details!

Contacts

- Barbara Keller: barbara.keller@tik.ee.ethz.ch, ETZ G61.2
- Jochen Seidel: jochen.seidel@tik.ee.ethz.ch, ETZ G61.1