



Prof. R. Wattenhofer

## Sports Analysis and Feedback Using Smartwatches

Smartwatches are getting more common and sophisticated. They include an array of sensors, and can sometimes even measure your heart rate and position.

In this thesis we are interested in using the sensor measurements of smartwatches in sports. For example, can we measure the speed and power of punches, kicks and other movements? Can we classify movements? Can we give feedback to athletes? We envision an application for sports like Karate, Taekwondo, Boxing and so on. We are sure there are also many other possible use



cases. If this sounds interesting to you, please do not hesitate to contact us so we can have a chat. We would like to hear your ideas on this topic as well!

**Requirements:** Creativity and programming skills are an advantage. Some experience with Machine Learning. The student(s) should be able to work independently!

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

### Contacts

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