

## Relation between gait parameters and a standardized geriatric assessment score

Did you ever hear of [“value-based reimbursement / healthcare”](#)? In short it is about the transformation from fee-for-service system based on quantity to a system based on quality. It involves requirements from many stakeholders and is a complex process. One requirement is the possibility to assess quality in a domain, as for example gait analysis. A tool on this way are wearable gait analysis systems.



Fig. 1: Gait analysis system with wearable sensors.

Gait analysis is used in many areas as for example in geriatrics. The “Digital Health – Gait Analytics” group of the Machine Learning and Data Analytics Lab has a large data set of gait assessments. Additionally, we have annotations about the patients, for example what their age or disease is.

Now we need someone to perform data analysis. This means that you could be the driving force for making sense out of this data! You can become part of the process to move from fee-for-service to value-based healthcare.

- Would you like to gain experience in gait analysis?
- Do you want to gain or extend your experience in software development?
- Are you interested in solving tasks applying machine learning algorithms?
- Do you want to bring in your own ideas?

If so, let us know via the form on our webpage! We are looking forward to reading from you.

By the way: it is not necessary to have any medical background, but programming background would be beneficial.