Review of „Polyanskaya\_Arina\_abstract“ by André Novak (01601797)

In this abstract the author described her approach to test if a motion capture setup is useful to conduct a “Fugl Meyer Assessment”. This helps to check if the participant suffers from ongoing impairments triggered by a stroke.

The beginning of the text was well written by the author because it shows the importance of the “Fugl Meyer Assessment” for stroke patients. Therefore, I see it as reasonable that this part makes up almost half of the entire abstract. The following part about the experiment setup gives a clear picture of how the experiment was conducted and how the author wants to examine the results. In my opinion the author should state if the participants were instructed to do the tasks with the help of a tutor or had to perform them on their own.

What was not entirely clear to me was the goal of the research. The author wants to “[…] evaluate the fitness of the motion capture system for the Fugl Meyer Assessment.” The abstract suggests that this was already done by Eichler, et al. (2018). However, they conducted a different experiment using a markerless motion capturing setup. Therefore, the goal of the author seems comprehensible, but it should be stated more clearly while defining the research goal.

Review of „ Jump high, fail hard: Investigating the correlation of jump rope patterns “ by André Novak (01601797)

The author’s goal is to capture specific motion patterns and coordination factors which influence the success of jump rope exercises within a motion capturing setup. In this case it would have been convenient to exactly list the body parts where markers have been placed for each participant.

For me it sounds difficult to really calculate “correlations” (a better word for me would be synchronisation) of body parts with different types of performing the jumping and regularly failing. If the author successfully can clean the captured data to perform the calculation of the mentioned statistical tests to get significant statements answering her research question, I think there is an interesting potential in this research. The only thing missing in the calculation section is the null hypothesis against the tests were performed.

While the aim of the research is clearly stated, I momentarily can’t really see how the research question can be answered with the calculations which have already been carried out. The question is more about the success of the jumping, while the described methods cover the “correlation” between different body parts. If the author could find valid statements based on her calculations to find out if different movements determine the success of the jumping it would take the analysis to another level.

A1:

KÜRZEN!!

Guter EInstieg, zeigt Relevanz des Themas

Kurze Zusammenfassung, clarity gut oder schlecht

Overview of thought

Detailed comments on manuscript

References

Eichler, N., Hel-Or, H., Shimshoni, I., Itah, D., Gross, B., & Raz, S. (2018). 3D motion capture system

for assessing patient motion during Fugl-Meyer stroke rehabilitation testing. IET Computer

Vision, 12(7), 963–975. <https://doi.org/10.1049/iet-cvi.2018.5274>

A2:

Das ganze noch zu ungenau, was wie analysiert werden soll

Correlation between hand movements and other body parts

Ist da Korrelation das richtige Wort?

Alle anderen body parts „springen“ hande konzentrieren sich aufs Seil

Works with p value, but what is the 0 hypothesis

Erster Teil fast zu ausschweifend?

Ziel gut erklärt

Korrelation das richtige Ziel zum ermitteln??, nur Z-Achse richtig??