

Bachelor-Thesis

Effect of handedness and footedness on decision making in everyday movements – das sind zwei Paar Schuhe

Description

Handedness and footedness can play an important role in sport related behavior. Everyday movements can be influenced by leg or hand dominance as well and can have an important role in motor behavior and decision-making. You are going to examine, in how far handed- and footedness and spacial positioning of items influence the corresponding physical action.

Methods

Video-based quantification, questionnaires and tests about handedness as well as leg dominance

Acquired data shall be statistically analyzed via *R*, *SPSS*, *JASP* or comparable.

Potential research questions

There are several interesting research questions/ aspects concerning the decision making of the given topic, which can be discussed in a first meeting.

Contact

Veit Kraft (veit.kraft@tum.de)

Dominic Rasp (dominic.rasp@tum.de)

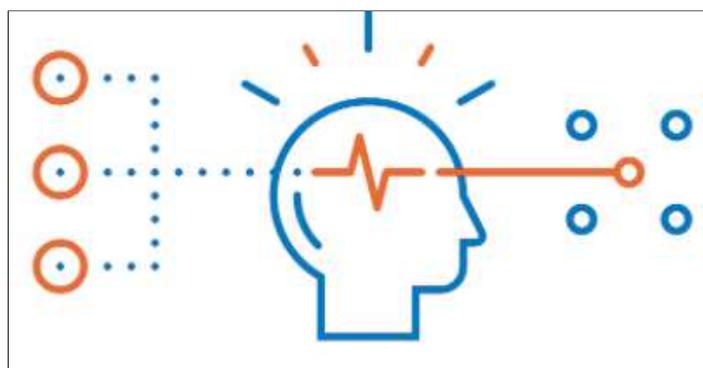


Product presentation *On Speedboard* (<https://shoe-store.at/marke-on/>)

Literatur

Bakker, R. S., Weijer, R. H. A., van Beers, R. J., Selen, L. P. J., & Medendorp, W. P. (2017). Decisions in motion: passive body acceleration modulates hand choice. *Journal of Neurophysiology*, *117*(6), 2250–2261.

Cos, I., Bélanger, N., & Cisek, P. (2011). The influence of predicted arm biomechanics on decision making. *Journal of Neurophysiology*, *105*(6), 3022–3033.



Decision making (<https://www8.gsb.columbia.edu/execed/program-page/eachb>)

