Thursday, 17.01.2019
CCM, Virchowweg 24, Aufgang B, Seminar Room 03.006

Quality assurance of cognitive assessments and other categorical data

Seminar 15:30 - 16:30
Hands-On Workshop 16:45 - 18:15

Please bring your own laptop (and data) for the workshop and install Ministep before (https://www.winsteps.com/ministep.htm)

Did you ever wonder how to account for biases such as ceiling effects in your (cognitive) data?

Metrological quality assurance of human-based responses is in its infancy and analyzing categorial data and other human responses is challenging. However, there is a need to tackle those challenges to ensure that decisions about health care are made correctly. Quality assured comparability, interoperability and decision-making can successfully be done by applying sound metrological approaches to enable traceability as well as stressing declaration of measurement uncertainties.

In the seminar, we present approaches to ensure quality assurance of categorical data, such as cognitive assessments and other human-reported responses. This is followed by a hands-on workshop where **you are welcome to bring your own or freely available data** for analyses.

Speakers

The seminar and workshop will be given by Adj prof Leslie Pendrill and PhD Jeanette Melin from RISE Research institutes of Sweden. Leslie and Jeanette are at present leading a work package about person-reported measurements for Alzheimer's patients within the EU project NeuroMET (2016 - 2022).

Adj prof Leslie Pendrill is a docent in experimental physics who has devoted his entire working life to research and education in metrology (i.e., quality assurance), mostly as Head of Research at the Swedish national metrology institute. Recently, Leslie has become an international leader in the quality assurance of measurement with people where perception or interpretation are used in product and system assessment. The metrology of categorical properties is relatively underdeveloped, despite increasing demands for measurements of this kind as a basis for decision making in many important cases of assessment of compliance with health requirements, security, trade, finance, etc.

PhD Jeanette Melin is a young researcher with a background from physiotherapy and during her doctoral studies she took part in the development of a self-reported questionnaire for patient participation. She is now included in several projects, among other NeuroMET, where person-centered metrology is used and further developed.