

eResearch-infrastructure for motor research data in sport science (*MoRe data*)

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Initial situation

- Data on motor performance (e.g. standing longjump, cooper test, ..) are collected nationally and internationally in a variety of projects for decades.

Problem statement

- current scientific findings on motor performance are inconsistent and sometimes contradictory (e.g. Olds et al., 2006).
- many collected motor research data never get published and remain denied for interested researchers.



project

- Cooperation project funded by DFG (01.07.2014 - 01.07.2016):
 - Karlsruhe Institute for Technology:
 - Institute for sports & sportscience (IfSS)
 - library
 - mb-mediasports

Aims

- Impulsion to share own research data and use quotable research data to improve and expand motor research data pool.
- Contribution to the scientific useability of motor research data.

Data provision & evaluation

- Providing a platform for publishing and archiving motor research data in sport science.
- Quotable preparation of (versioned) motor research data, which are thus scientifically available for interested researchers.

- Development of complex analysis tools and generation of norm data.

Standardization

- Providing standardized descriptions & materials for motor performance tasks.

perspectives

- Creating quality assurance concept
- Development of data management plan
- Definition of terms of agreement for datasets
- Database modeling & programming (INPUT/ OUTPUT), phase of validation & productive operation
- Ensuring the sustainability of MoRe data (continuous operation)
- Networking: interested researchers are invited to participate in the project

Literature:

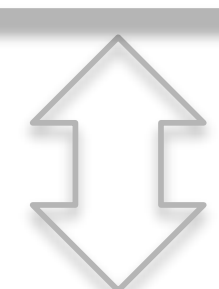
Olds, T., Tomkinson, G., Leger, L. & Cazorla, G. (2006). Worldwide variation in the performance of children and adolescents: an analysis of 109 studies of the 20-m shuttle run test in 37 countries. *Journal of sports sciences*, 24(10), 1025-1038.

MO|RE data



INPUT

Anonymised datasets
of researchers



storage of raw
data sets

new MoRe data
dataset

Reduction on MoRe data
variables and assignment of DOI



OUTPUT

Raw data &
aggregated data (special "queries",
filtered)

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