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Project abbreviation: MC-TRISLAN

Project name: Motion-Capture 3D Sign Language Resources

Project coordinator: University of West Bohemia

Project consortium: European Language Grid Open Call

Funding: EU funds

Project duration: from 01/04/2021 to 28/02/2022

Main key words: Sign language; Motion capture; Language resources; Less-resourced languages

Background of the research topic: The Sign languages (SL) resources are scarce - they consist of small SL corpora usually designed for a specific domain such as linguistics or computer science. The situation is even worse for “small” languages such as Czech SL (CSE). We want to create large data-set of high precision SL motion data. Current SL datasets are recorded mostly by video camera. The motion capture technology guarantees more precise recording of the signer’s movements directly in 3D space.

Goal of the project: The main goal of the project is to extend the portfolio of language resources available in the ELG by adding datasets and tools for sign language (SL).

Project abstract: The project expands the portfolio of language resources available in ELG by adding a data-set and a search tool that are for Czech sign language. The project solves the current problem which is a critical lack of quality data necessary for research and subsequent deployment of machine learning techniques in this area. As an output, the project currently provides the largest collection of sign language acquired by state-of-the-art 3D human body recording technology and enables the future successful deployment of communication technologies, especially machine translation and sign language synthesis.

