SignWriting-Based Sign Language Processing

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Abstract. This paper[1] proposes an approach to the computer processing of deaf sign languages that uses *SignWriting* as the writing system for deaf sign languages, and *SWML* (`SignWriting Markup Language`) as its computer encoding. Every kind of language and document processing (storage and retrieval, analysis and generation, translation, spell-checking, search, animation, dictionary automation, etc.) can be applied to sign language texts and phrases when they are written in *SignWriting* and encoded in *SWML*. This opens the whole area of deaf sign languages to the methods and techniques of *text-oriented* computational linguistics.

Keywords: Sign language processing, SignWriting, SWML.

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