
ATLANTIS - Multimodal Corpora for Crossmodal, Grounded Language Learning

Brigitte Krenn*¹ and Friedrich Neubarth*

¹Austrian Research Institute for Artificial Intelligence (OFAI) – Freyung 6/6, A-1010 Vienna Austria, Autriche

Résumé

ATLANTIS - Multimodal Corpora for Crossmodal, Grounded Language Learning, Brigitte Krenn and Friedrich Neubarth, Austrian Research Institut for Artificial Intelligence (OFAI)

- Motivation: Why task descriptions?
- Comparability to language input for early language learning in infants
- Parallelism between speech and action
- Situatedness
- Goals:
- Multimodal object reference resolution
- Crossmodal learning of word-object mappings
- 2 Corpora: Multimodal Task Description Corpus, Action Verb Corpus
- Data collection experiments
- Technical setup
- Multimodal annotations
- Learning of Word-Object Mappings
- Learning from small multimodal task-oriented datasets (learner-tutor scenarios)
- The effect of signals from different modalities: head-eye gaze, manual manipulation
- Exemplary discussion of different learning approaches

*Intervenant