Representational Similarity Between Brain Activity Elicited by Concrete Nouns and Image Based Semantic Models

Andrew J Anderson, Elia Bruni, Jasper Uijlings, Ulisse Bordignon, Marco Baroni and Massimo Poesio

1. University of Trento, CIMEC 2. University of Trento, DISI

1. Distributional semantics

Distributional meanings as co-occurrence vectors (Landauer and Dumais, 1997, Tur-ney and Pantel, 2010)

2. Distributional semantics from images

BoVW pipeline (Sivic and Zisserman, 2003)

3. Distributional semantics and the brain

fMRI vectors (Mitchell et al., 2008)

Representational similarity analyses

Representational similarity between image-based models and fMRI data