

Application Models

4.1 Automatic Generation

contextual multimodality

cross-lingual transfer; translations

low-resource languages

4.2 Figurative Language

contextual multimodality

regression and classification

variation of abstractness types

4.3 Hypernymy Prediction

multimodality, semantic generality

regression and classification

variation of abstractness types

Empirical Models

2 Textual Characteristics of Abstractness

distributional co-occurrence models: degrees of contextual abstractness; neighbourhood density and diversity models; unsupervised models of hypernymy

class-based generalisation: clusterability; silhouette value

cross-lingual transfer: qual. analyses; cross-lingual clusters

3 Multimodal Dimensions of Abstractness

association and feature dimensions: quantitative analyses on type/token levels; meaning/association/context models

identify and utilise visual dimensions: quantify image properties of abstract and concrete words

multimodal representation: embeddings and combination

Abstractness Basis

1.1 Definition

word classes (N, V, A)

perception vs. generality

contextual multimodality

1.2 Ratings

word classes (N, V, A)

contextual multimodality

literal vs. figurative use

1.3 Resources

modalities: text, images, associations, features

large-scale multimodal collocations

1.4 Languages

cross-lingual transfer

abstractness correlations

focus on noun senses