Lexical Semantic Change Detection
Seminar SS19
IMS, University of Stuttgart

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Topic. Diachronic Lexical Semantic Change (LSC) Detection, i.e., the automatic detection of word sense changes over time, is a flourishing new field within NLP (Tahmasebi, Borin & Jatowt, 2018). In this seminar we will review existing approaches for unsupervised diachronic LSC detection, which are mainly based on three types of distributional meaning representations: (i) semantic vector spaces, (ii) topic distributions or (iii) sense clusters. Recently proposed approaches include deep neural models as well as applications of Bayesian learning to topic models. The seminar will be closely related to ongoing research and cover aspects from the usual scientific process in computational linguistics including computational modeling, evaluation and interpretation as well as linguistic theory and annotation. In the first half of the semester students will give a presentation and in the second half they will participate in a shared task on LSC detection including a short presentation of their solution and results.

Target audience. You may be interested in this seminar as a computational linguist, computer scientist or linguist, if you have a strong interest in empirical research and want to do it yourself.

Language. English.

Vacancies. 10 students.

Literatur