EBERHARD KARLS UNIVERSITÄT TÜBINGEN



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Distinguishing Between Close and Distant Romance Varieties

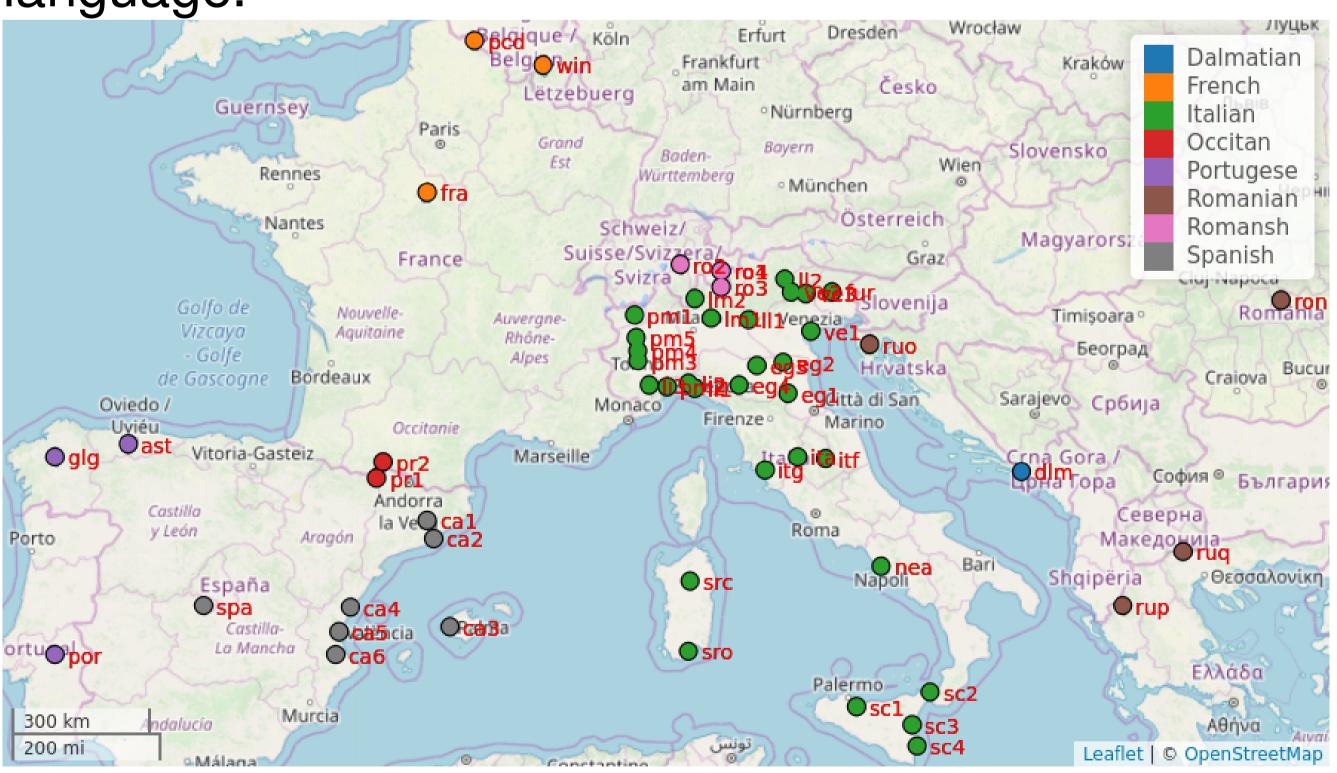
Introduction

How can we distinguish dialect pairs from language pairs? Some legitimate approaches include intelligibility measurements, perceptive distance, linguistic affiliation or the combination of some of the above.

Here, I apply computational distance and similarity measurements in order to objectively determine the affiliation, disregarding other linguistic parameters. I claim that there are not only very close and very distant groups but also groups with gradual differences and no clear affiliation.

2 Data

58 Romance Varieties, with 110 concepts for each language.

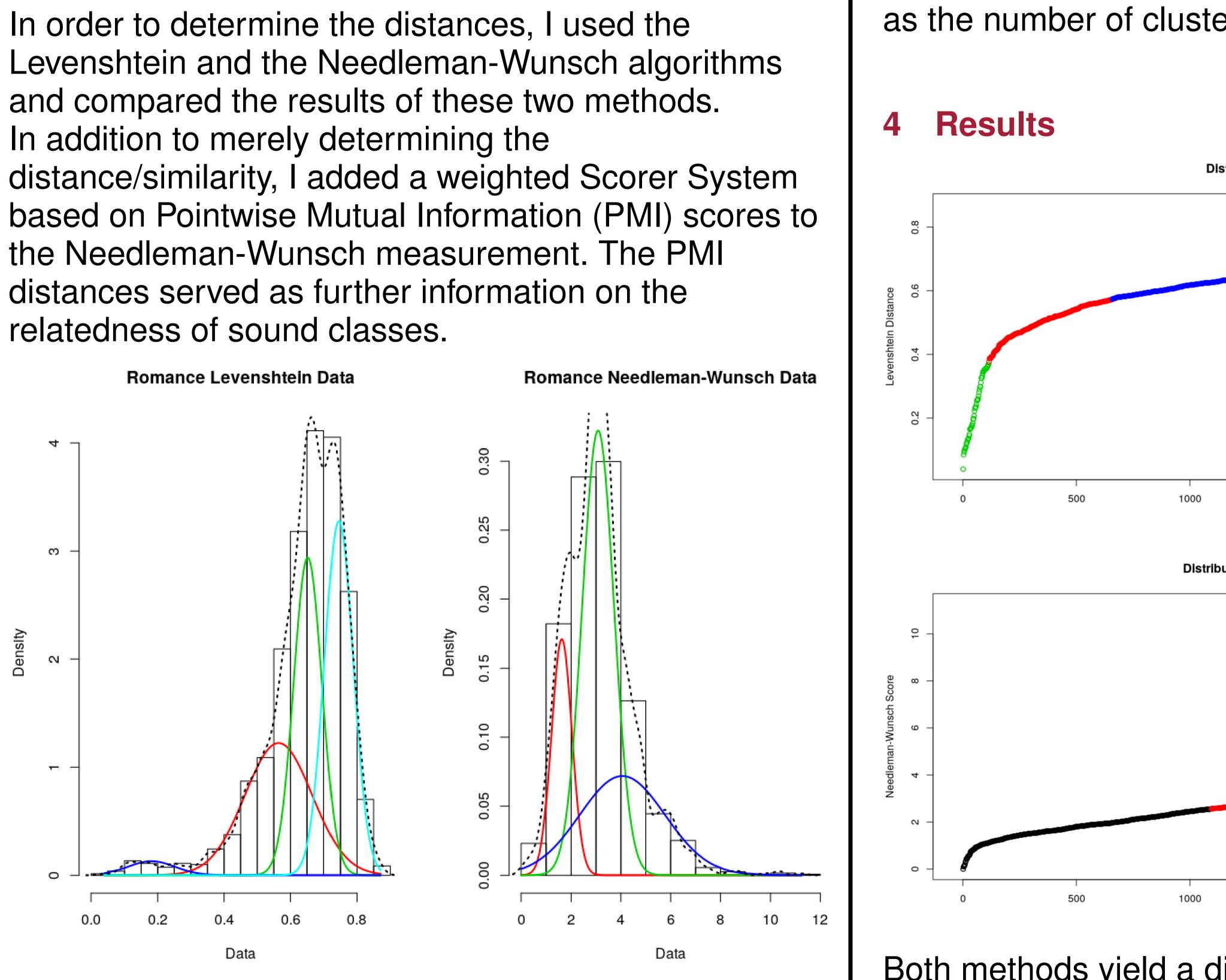


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Methods 3

relatedness of sound classes.



After the scores were calculated, I determined the number of subcomponents with mixture models. The

resulting number of components can hence be used as the number of clusters for k-means clustering.

which can be analysed according to different underlying assumptions.



Distribution of Romance Levenshtein Scores Distribution of Romance Needleman-Wunsch Score Both methods yield a different number of clusters