

PANACEA Project

Platform for Automatic, Normalized Annotation and Cost-Effective Acquisition

Grant Agreement no. 248064



Documentation of P clue/ lexical class from Weka computer Web Service¹

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1 Overview

Given a training set encoded as vectors of cue (or feature) occurrences in weka format, this web service computes $P(cue_i|class)$: the probability of seeing each cue as a member or non-member of the class using MLE approach (counts frequencies of appearance of each cue in each class).

2 Inputs, outputs and formats

Inputs:

• weka_signatures: classified instances encoded as cue vectors. Each slot of the vector contains the number of times each feature has been observed for that instance. Also, we add special slots: total number of occurrences in the first slot and correct class (1 or 0) and lemma (or any identifier of the instance) in the two last slots.

Format: The vectors should be encoded in a weka file, in UTF.8. For example, for the class of eventive nouns in English we would have some examples of eventive nouns and some of non-eventive nouns:

```
@relation eventive.arff'
@attribute "[total_occurences]" numeric
@attribute "[cue_1]" numeric
@attribute "[cue_2]" numeric
...
@attribute "[cue_n]" numeric
@attribute "[eventive]" {0,1}
@attribute "[lemma]" string

@data
5,0,0,...,3,0,visa
386,0,1,...,162,0,characteristic
23,1,0,...,0,1,ceremony
270,0,2,...,0,1,assembly
```

Important: the cue counts must be encoded as integers, this is, no relative frequency needs to be given but the number of times each cue has been seen.

Outputs:

The output is a comma separated file with the frequencies each cue has been observed with members and non-members of the class. Also, information about the number of tokens in each class is given. Example:

#cue;data size class;data p class;data size no class;data p no class;

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 $lc_1; 1301732; 0.000883438372876; 1516522; 0.00137419701132;$

lc_2;1301732;0.000520076329075;1516522;0.000600716639785;

 $1c_3; 1301732; 0.0243222107162; 1516522; 0.0177992801951;\\$

lc_4;1301732;0.0;1516522;0.0;

 $1c_5; 1301732; 0.0511119032182; 1516522; 0.017487382313;\\$

Related Web Service:

P clue/ lexical class from Weka computer Web Service: http://lod.iula.upf.edu/resources/225