Cross Linguistic Analysis Results

(1) Correlations/overlap of common top-100 ranked (IG) words

<table>
<thead>
<tr>
<th></th>
<th>DEMENTIA-GREEK</th>
<th>DEMENTIA-OPTIMA</th>
<th>OPTIMA-GREEK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pearson's Correlation</td>
<td>0.3</td>
<td>0.79</td>
<td>0.52</td>
</tr>
<tr>
<td>Spearman's Rank Correlation</td>
<td>0.26</td>
<td>0.62</td>
<td>0.39</td>
</tr>
<tr>
<td>% Common words in top-100</td>
<td>0.49</td>
<td>0.36</td>
<td>0.41</td>
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</tbody>
</table>

(2) Commonly distinctive (t-Test, p<0.05) PoS, LV, SC features between AD & NC groups across data sets

Crosslingual Analysis Results

- Discriminative power of LV, SC and PoS features verified across languages
- State-of-the-art accuracy of deployed system
- Development of CogAware prototype

Conclusions

- Discriminative power of LV, SC and PoS features verified across languages
- State-of-the-art accuracy of deployed system
- Development of CogAware prototype

Future Work

- Fusion of crosslingual features with best model (complementarity of errors)
- Preliminary findings indicate enhanced performance

Additional Work

- Automatic transcription of spoken sample
- Research prototype for automatic language-based assessment of AD risk factor
- Android application and Google Drive Add-on
- Quick and accurate screening of patients for AD
- Pilot deployed in day-care centers (GR)

References


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http://project-iasis.eu/