

Diatech+: Tool for doing Dialectometry easier

GOTZON AURREKOETXEA
KARMELE FERNANDEZ
JESUS RUBIO
GOTZON SANTANDER
IKER USOBIAGA
UPV/EHU

Since the launch of the *Diatech* online software one year ago, the research team has continued working to improve the performance of the tool. This version, first, provides tools to upload data to the net and draw the corresponding map; secondly, it gives the possibility to manage data-basis hosted into it and to do many dialectometrical analysis (synoptic maps as distribution of similarity, standard deviation, asymmetry, correlation, etc, beam and honeycomb maps, and cluster analysis), using distinct linguistic distances (IRI, IPI, Levenshtein) following different DM schools, and taking into account different answer types (as orthographic, phonetic or lemmas). Nevertheless, the research team proposes more advances to improve the tool and launches the new version called *Diatech+*. The improvements of the tool have been made in three levels: in technical, statistical and visual levels.

Technical improvements: the new version of the tool improves the procedure to store the results of previous statistical operations, avoiding server overloading and in the same way, speeding up the response of the tool. This makes the access to outputs much faster than before, gaining in the interactivity between the tool and the researcher.

Statistical improvements: the *Diatech+* version provides the possibility to do more multivariate statistics. Apart from the cluster analysis that can be made in the actual version, the *Diatech+* provides also the possibility to make multidimensional Scaling (MDS).

Visual improvements: regarding visual improvements *Diatech+* gives the opportunity to make figures and maps of more quality than before.