As Assyriology uses new technologies for computer encoding of cuneiform texts, to support the analysis and management of a great deal of data coming from tablets. At the present, integrating e-tools in the GRID virtual environment opens new perspectives in the analysis of ancient cuneiform texts, with a particular attention devoted to Assyriology. Therefore, after a preliminary study, an experimental application of new technologies to the Nuzi Corpus has been carried out, using Multilingual Text Mining in ancient languages, in view of an integration into the digital environment of the ENEA GRID. This innovative approach into the study of cuneiform corpora may influence software developments and collaborative working in order to match the specific needs of scholars communities.

Introduction

The Project’s grid is designed to...

GRID and Assyriology

GRID can offer an immense research support in Assyriology mainly thanks to the permission of useful computing and storage infrastructures. However, the methodological application of the Text Mining methodology requires an adoption of some linguistic software and support infrastructures in order to...

Characteristics of ENEA GRID

ENEA-GRID offers a fast and secure access to software and hardware platforms implementing the ENEA "e-Science" approach for high performance computing...

GRID and e-Humanities

The GRID infrastructure covers 12 Research sites and is designed and managed by the ENEA ICT Unit (www.utict.enea.it) with 6 computer centers.

Results

As it is known, the writing system of the Kingdom of Assyria knew marked, subtle changes in usage, so that it developped in the distinctive Nuzi writing system from a formative stage. Is it possible to observe traces of this process in the Šeršiia family? It is necessary to analyze many elements...

Conclusions

GRID and e-Humanities

The GRID enables scholars to perform-quantitative and comparative studies on text corpora, by using linguistic software for computer-aided analysis a) The GRID technology offers an innovative insight in the study of ancient texts. b) The GRID infrastructure provides access to computational resources for the storage and processing of large textual corpora (from the INTERNET, from Digital Libraries, Data Bases, Archives, etc.).

Short- and Long-term Prospects

This innovative approach into the study of cuneiform corpora may influence software developments, especially in order to match the specific needs of scholars communities. Adaptations and improvements of programs will be carried out in view of an integration into the GRID environment. Also some practical elements, like the use of an Assyriological-friendly tool, will be taken into consideration and attempts with the use of UMOHORI texts are being carried out. Therefore, suggestions, proposals and forms of discussion are in any way welcomed.