

ACADEMIC STYLE MARKER ONTOLOGY DESIGN

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ACADEMIC PAPER STYLE

- **Academic writing** have investigated in terms of grammar, structure, genre and other crucial features, however, not enough attention has been paid to building a **systematic approach**.
- **Recommendations** given in guides and handbooks for both competent and novice academic writers in English are not systematized and sometimes even have obvious **internal contradictions**.



Purposes of the research:

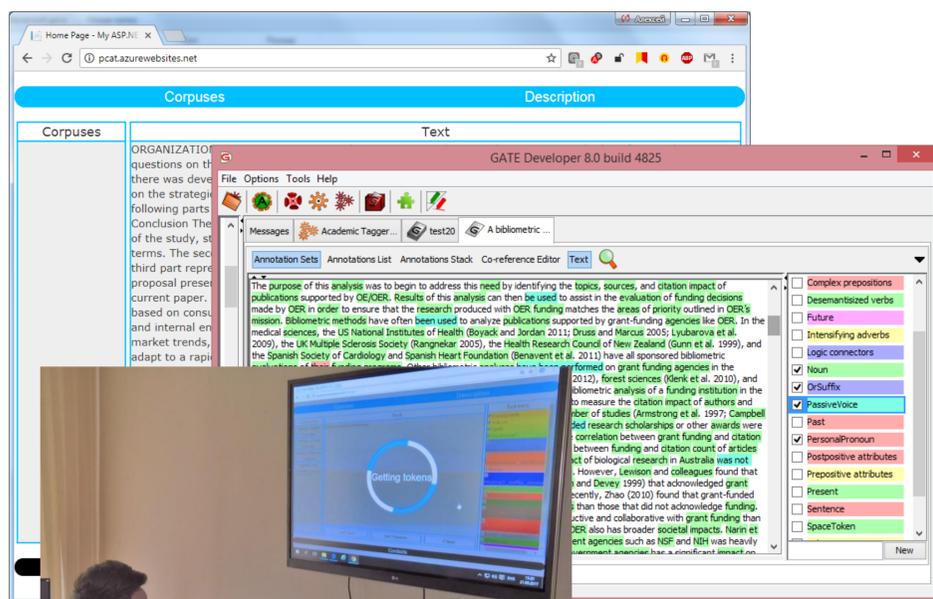
- Extract **style markers**, define **interrelations between them** and design the style model of academic English.
- Investigate **hierarchical relations** between style elements to determine their **frequency** occurrence in English scientific texts and describe usage pattern of these elements on the texts pieces of different levels.
- Develop the **ontological system** of academic writing features.

“PAPER CAT” PROJECT GROUP

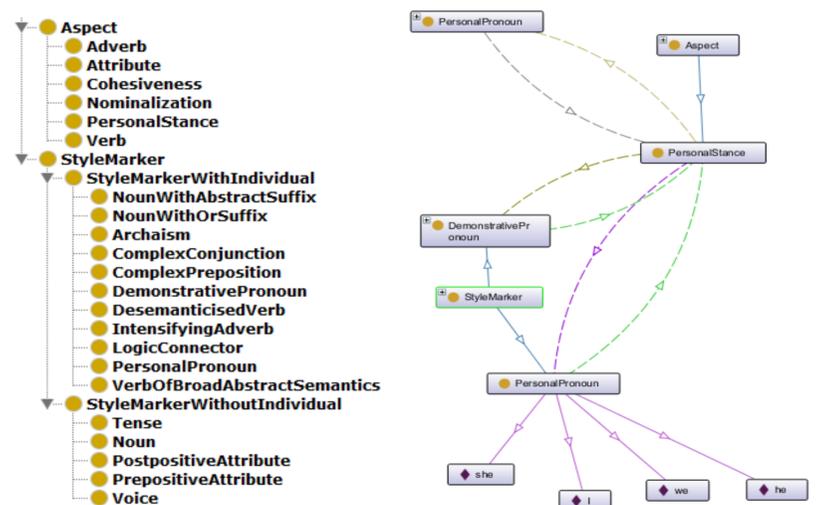
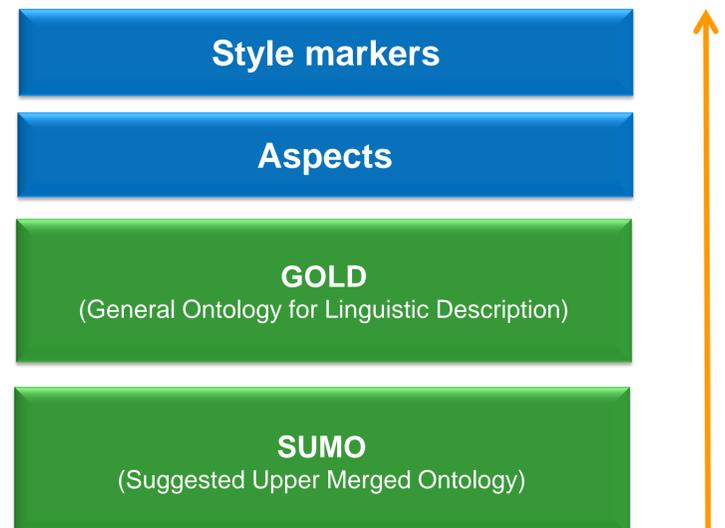
The group works at software development for analysis of academic writing in English. Within the framework of the project the approach to text analysis is developed and a pilot system is being created.

The system analyzes the texts against a set of academic discourse markers typical of academic writing in the particular subject area. System approach implemented in the project involves creating the ontology of discourse attributes and taking into consideration pragmatic context. Corpus approach to style analysis will provide empirical data and will give a solid base for the research of academic writing style.

The major practical result of the software is publishing internet-service available to authorized users both for research and study aims.



ACADEMIC STYLE MARKER ONTOLOGY



LEXICAL-SYNTACTIC PATTERN GENERATION

Ontology is necessary not only for style markers systematization but also as the foundation of lexical-semantic patterns generation.

General algorithm of search pattern generating on the basis of ontology consists of several steps:

1. Get all the individuals of the subclasses which main class is StyleMarker.
2. Get data property Template, which contains JAPE - expression to search particular marker.
3. Get JAPE – expression or name of file which is aimed on searching of marker.
4. Combine expressions with the help of OR-operator in one total JAPE - expression, get to file name, consisted style marker search implementation.

CONCLUSION

- The standard tools and software applications are used to design the ontology which simplifies the process of development and decision maintenance process.
- The approach has an expanding property, i.e. in order to add a new marker the user needs to add its description and the identification rule will be generated automatically.
- Using the linguistics level, described in the ontology, makes the description of related domains possible.

