

## EXPLICIT AND IMPLICIT LINKS IN THE MODELING OF SYNTACTIC RELATIONS

PETYA OSENOVA

SOFIA UNIVERSITY “ST. KLIMENT OHRIDSKI”

*petyaosanova@slav.uni-sofia.bg*

**Abstract:** The paper discusses the transfer of linguistic information from a constituent type to a dependency type of representation. The survey explores the syntactic resource Bultreebank which has been annotated in accordance with the HPSG constituent theory and the same resource analyzed within the Universal Dependencies framework. The author considers cases where the syntactic relations have been made explicit in the dependency representation but have remained implicit in the constituent representation since they could be inferred easily from the annotation. The transfer has been introduced through the so-called enhanced dependencies. A conclusion is made that the transition from one representation to another supports the discovery of problem areas across linguistic theories and in the description of certain linguistic phenomena.

**Keywords:** constituency, dependency, modeling, enhanced dependencies, Bulgarian

### REFERENCES

- Osborne et al. 2012: *Osborne, T., Michael Putnam, T. Groß*. Catenae: Introducing a novel unit of syntactic analysis. – *Syntax*, 15(4), pp. 354–396.
- Osenova, Simov 2007: *Osenova, P., K. Simov*. Formalna gramatika na balgarskiya ezik. Sofia, IPOI.
- Schuster, Manning 2016: *Schuster, S., Ch. Manning*. Enhanced English Universal Dependencies: An Improved Representation for Natural Language Understanding Tasks. – In: *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC 2016)*. Paris, France, ELRA.

✉ *Prof. Petya Osenova, PhD*

Department of Bulgarian Language, Faculty of Slavic Studies  
Sofia University “St. Kliment Ohridski”  
15 Tzar Osvoboditel Blv., 1504 Sofia, Bulgaria