

Stress Patterns of Compounds and MWEs in English and Bulgarian

Bistra Popovska, Rositsa Dekova



Paisii Hilendarski

University of Plovdiv



Second International Conference
Computational Linguistics in Bulgaria
9 September, 2016, Sofia

POSTER TEASER

- ▶ Ongoing research on the **stress patterns** of **compounds** and **MWEs** of the type **ADJ+N** and their corresponding **free NPs** in English and Bulgarian.
- ▶ The research focuses on their correct **identification** and proper **representation**.

RESEARCH OBJECTIVES

- ▶ To investigate the development of compound and phrasal stress in both **production** and **perception**
- ▶ To specify the **prosodic region** where the stress is defined in English and Bulgarian MWEs and noun phrases
- ▶ To define **main features of the stress** in MWEs and free NPs in English and Bulgarian.

DESIGN OF THE EXPERIMENTS

Two experiments to test production and perception.

Stimuli: 20 minimal pairs in sentence final position

- ▶ Each pair consists of a segmentally identical compound or MWE and a free phrase of the type ADJ+N
 - ▶ *bluebell vs. blue bell; blackboard vs. black board*
 - ▶ *Черно море vs. черно море; Великден vs. велик ден*

Distracters:

- ▶ Structurally similar to the stimuli but they do not belong to minimal pairs:
 - ▶ *deadlock, sickbay, quicksilver*

FUTURE WORK

- A statistical analysis of the results of the experiments to provide empirical evidence
- An extended experiment focusing on stress patterns in second language acquisition
- A formal representation of compounds and MWEs suitable for implementation into NLP modules for spoken language processing and generation

**THANK YOU
FOR THE ATTENTION!**