Content

Preface 11

Welcome to Olomouc! 13

Quantitative analysis of poetic space:
discrimination of loci in Eugene Onegin by Pushkin 15
Sergey Andreev

The Menzerath-Altmann Law revisited 17
Jan Andres

The dependency between the variance of word length and word frequency 19
Gemma Bel-Enguix, Kirsten Bohn, Ramon Ferrer-i-Cancho

Distributional models of the verbal predicate-argument structure 21
Andrei Beliankou

Menzerath-Altmann Law in differently segmented text 23
Martina Benešová, Dan Faltýnek, Lukáš H. Zámečník

Application of the Menzerath-Altmann Law to contemporary
written Japanese – short story style 25
Denis Biryukov, Martina Benešová

Impact of semantics on case diversification 27
Radek Čech, Emmerich Kelih, Ján Mačutek

Factors of readability of Polish texts: a psycholinguistic study 29
Edyta Charzyńska, Łukasz Dębowski

Word length distribution in Chinese dialogue and prose texts 32
Heng Chen

Using language network characteristics to do text classification 34
Xinying Chen

A new universal code helps to distinguish natural language from random texts 36
Łukasz Dębowski

Large-scale stylometry using network analysis 38
Maciej Eder

Quantitative studies: the advantages for dialectology 40
Sheila Embleton, Dorin Uritescu, Eric S. Wheeler

Quantitative data on monosyllabism: a cross-linguistic study 42
Gertraud Fenk-Oczlon, August Fenk

Towards a mathematical theory of word order evolution 45
Ramon Ferrer-i-Cancho

The study of text clustering based on Chinese dependency treebank 47
Song Gao

Modelling multidimensional polysemy networks. The case of /over/. 48
Dylan Glynn

Stylistic fingerprints, POS tags and inflected languages: a case study in Polish 51
Rafał L. Górski, Maciej Eder, Jan Rybicki

The Arens-Altmann Law:
a matter of boundary conditions or an ostensible success story? 54
Peter Grzybek

On the robust measurement of inflectional diversity 57
Guillaume Guex, Aris Xanthos

Cross-linguistic transference of authorship attribution 59
Belinda Hasanaj, Erin Purnell, Patrick Juola

Distribution pattern of given and new information in written English 61
Wang Hua

Word frequency distribution in genres of modern Chinese 63
Wei Huang

Loan words: a quantitative linguistics perspective 65
Emmerich Kelih

The Menzerath-Altmann Law in film analysis 67
Veronika Koch, Peter Grzybek

Quantitative index text analyser (QUITA) 69
Miroslav Kubát, Vladimír Matlach

Quantitative psycholinguistic analysis of formal parameters of Czech text 71
Dalibor Kučera, Jiří Haviger

Towards generalization of sociolinguistic distributions: 73
English loanwords in contemporary written Japanese
Aimi Kuya

Type-token relation for length motifs in Ukrainian texts 76
Ján Mačutek

Gender identification in Modern Greek tweets 78
George Mikros, Kostas Perifanos

Three models for the Menzerath's Law 80
Jiří Milička

Sentence semantics, word meaning, and nonlinear dynamics 81
Hermann Moisl

Testing language units of written Chinese via Menzerath-Altmann Law 83
Tereza Motalová, Lenka Spáčilová

Structural versus morphological coding. A cross-linguistic study. 85
Sven Naumann

An exploration of the "Golden Section" in Chinese contemporary poetries 86
Xiaxing Pan, Hui Qiu

Modelling proximity in a corpus of literary retranslations: 89
a methodological proposal for clustering texts based on
systemic-functional annotation of lexicogrammatical features
Adriana Pagano, Giacomo Figueredo, Annabelle Lukin

The Krylov Law as a tool for comparative lexicology. 92
The example of Polish 19th century dictionaries.
Adam Pawłowski

Evolutionary derivation of laws for polysemic and age-polysemic 94
distributions of language signs ensembles
Vasiliy Poddubny, Anatoly Polikarpov

Quantitative studies in the corpus of Nko periodicals 97
Andrij Rovenchak

Translations in networks: the (in)visibility of translator styles 99
Jan Rybicki

A co-occurrence and an order of the valency in Japanese sentences 102
Haruko Sanada

Authorship attribution using political speeches 104
Jacques Savoy

Testing language units of spoken Chinese via Menzerath-Altmann Law 106
Jana Ščigulinská, Denisa Schusterová

Comparative rates of change as a diagnostic of vowel phonologization 108
Betsy Sneller

Diversification in the noun inflection of Old English 111
Petra Steiner

Quantitative verification of constancy measures of texts 113
Kumiko Tanaka-Ishii, Shunsuke Aihara

History of words II – types of historical developments 115
Arjuna Tuzzi, Reinhard Köhler

Defying Zipf's Law 117
Marjolein Van Egmond, Sergey Avrutin

Opinion target identification using thematic concentration of the text 119
Kateřina Veselovská, Radek Čech

Grammar efficiency and the idealization of parts-of-speech systems 121
Relja Vulanovič, Tatjana Hrubik-Vulanovič

Polyfunctionality and polysemy in Chinese 123
Lu Wang

Structural complexity of Chinese characters and Zipf's Law 126
Yanru Wang, Xinying Chen

The influences of the word unit and the sentence length on the ratio of the parts of speech in Japanese 129
Makoto Yamazaki

Addresses of authors 131

Register 146