

# Relja Vulcanović's Mathematical Linguistics Research Publications

June 25, 2023

1. R. Vulcanović (1989). An analytic model of regularity and ambiguity of simple sentences, *Linguistic Analysis* 19, 176–201.
2. R. Vulcanović (1991). On measuring grammar efficiency and redundancy, *Linguistic Analysis* 21, 201–211.
3. R. Vulcanović (1993). Word order and grammar efficiency, *Theoretical Linguistics* 19, 201–222.
4. R. Vulcanović (1995). Model-based measuring of syntactic change, *J. Quantitative Linguistics* 2, 67–76.
5. R. Vulcanović (1997). The development of negation in French: A quantitative model, *J. Quantitative Linguistics* 4, 276–280.
6. R. Vulcanović (1999). Grammar efficiency and the historical development of word order in French, *Issues in Mathematical Linguistics* (C. Martín-Vide, ed.), John Benjamins, Amsterdam, 193–206.
7. R. Vulcanović (2003). Grammar efficiency and complexity, *Grammars* 6, 127–144.
8. R. Vulcanović (2005). The rise and fall of periphrastic *do* in affirmative declaratives: A grammar efficiency model, *J. Quantitative Linguistics* 12, 1–28.
9. R. Vulcanović (2005). The combinatorics of cases and word order, *Research on Language and Computation* 3, 107–129.
10. R. Vulcanović & R. Köhler (2005). Syntactic units and structures, *Quantitative Linguistics — An International Handbook* (G. Altmann, R. Köhler, & R. Piotrowski, eds.), Walter de Gruyter, Berlin/New York, 274–291.
11. R. Vulcanović (2007). Fitting periphrastic *do* in affirmative declaratives, *J. Quantitative Linguistics* 14, 111–126.
12. R. Vulcanović & H. Baayen (2007). Fitting the development of periphrastic *do* in all sentence types, *Exact Methods in the Study of Language and Text* (P. Grzybek & R. Köhler, eds.), Mouton de Gruyter, Berlin/New York, 679–688.
13. R. Vulcanović (2007). On measuring language complexity as relative to the conveyed linguistic information, *SKY Journal of Linguistics* 20, 399–427.
14. R. Vulcanović (2008). The combinatorics of word order in flexible parts-of-speech systems, *Glottology* 1, 74–84.
15. R. Vulcanović (2008). A mathematical analysis of parts-of-speech systems, *Glottometrics* 17, 51–65.
16. R. Vulcanović (2009). Efficiency of flexible parts-of-speech systems, *Issues in Quantitative Linguistics* (*Studies in Quantitative Linguistics* 5), (R. Köhler, ed.), RAM-Verlag, Lüdenscheid, 155–175.
17. R. Vulcanović & R. Köhler (2009). Word order, marking, and parts-of-speech systems, *J. Quantitative Linguistics* 16, 289–306.
18. R. Vulcanović (2010). Word order, marking, and a two-dimensional classification of parts-of-speech system types, *J. Quantitative Linguistics* 17, 229–252.
19. R. Vulcanović & B. Miller (2010). Grammar efficiency of parts-of-speech systems, *Glottology* 3(2), 65–80.

20. R. Vulcanović (2011). Classifying parts-of-speech systems by their quantitative properties, *Issues in Quantitative Linguistics* Vol. 2 (*Studies in Quantitative Linguistics* 11), (E. Kelih, V. Levickij & Y. Matskulyak, eds.), RAM-Verlag, Lüdenscheld, 170–188.
21. R. Vulcanović (2012). Efficiency of grammatical markers in flexible parts-of-speech systems, *Synergetic Linguistics: Text and Language as Dynamic Systems* (S. Naumann, P. Grzybek, R. Vulcanović & G. Altmann, eds.), Praesens, Wien, 241–256.
22. S. Naumann, P. Grzybek, R. Vulcanović & G. Altmann (eds.), (2012). *Synergetic Linguistics: Text and Language as Dynamic Systems*, Praesens, Wien.
23. R. Vulcanović (2013). Efficiency of word order in flexible parts-of-speech systems, *Issues in Quantitative Linguistics* Vol. 3 (*Studies in Quantitative Linguistics* 13), (R. Köhler & G. Altmann, eds.), RAM-Verlag, Lüdenscheld, 150–167.
24. R. Vulcanović (2013). A multidimensional generalization of the Piotrowski-Altmann law, *Methods and Applications of Quantitative Linguistics (Selected Papers of QUALICO 2012)*, (I. Obradović, E. Kelih, & R. Köhler, eds.), University of Belgrade/Academic Mind, 184–193.
25. R. Vulcanović (2013). Grammar efficiency in the development of flexible parts-of-speech systems, *Glottology* 4(2), 26–39.
26. R. Vulcanović & T. Hrubik-Vulanović (2015). Grammar efficiency and the idealization of parts-of-speech systems, *Recent Contributions to Quantitative Linguistics* (A. Tuzzi, M. Benešová, & J. Mačutek, eds.), De Gruyter, Berlin/Boston, 215–228.
27. R. Vulcanović (2016). The combinatorics of word order in flexible parts-of-speech systems II, *Mathematical Linguistics* 2(1), 75–96.
28. R. Vulcanović & O. Ruff (2018). Measuring the degree of violation of the one-meaning-one-form principle, *Structure, Function and Process in Texts* (L. Wang, R. Köhler, & A. Tuzzi, eds.), RAM-Verlag, Lüdenscheld, 67–77.
29. R. Vulcanović & T. Mosavi Miangah (2019). A comparison of the accuracy of parts-of-speech tagging systems based on a mathematical model, *J. Quantitative Linguistics* 26, 256–265, DOI: 10.1080/09296174.2018.1474517.
30. R. Vulcanović & T. Mosavi Miangah (2020). The flexibility of parts-of-speech systems and their grammar efficiency, *Words and Numbers (In Memory of Peter Grzybek)* (E. Kelih & R. Köhler, eds.), RAM-Verlag, Lüdenscheld, 129–147.
31. T. Mosavi Miangah & R. Vulcanović (2021). The ambiguity of the relations between graphemes and phonemes in the Persian orthographic system, *Glottometrics* 50, 9–26.
32. R. Vulcanović (2021). Grammar efficiency and the one-meaning-one-form principle, *Language and Text. Data, Models, Information and Applications* (A. Pawlowski, J. Mačutek, S. Embleton, & G. Mikros, eds.), John Benjamins, 109–120, DOI: 10.1075/cilt.356.07vul
33. R. Vulcanović (2022). Efficiency of grammars for natural languages, *Efficiency in Complex Systems. Springer Proceedings in Complexity* (G.Y. Georgiev & M. Shokrollahi-Far, eds.) Springer, Cham. DOI: 10.1007/978-3-030-69288-9
34. Yamazaki M., Sanada H., R. Köhler, S. Embleton, R. Vulcanović & E. Wheeler (eds.), (2023). *Quantitative Approaches to Universality and Individuality in Language (Quantitative Linguistics 75)*, De Gruyter Mouton.