Contents of Glottometrics 12, 2006 (including abstracts)

Shizuo Mizutani

Fan, Fengxiang
Models for dynamic inter-textual type-token relationship 1-10

Abstract. This paper examines the inter-textual type-token relationship and tests some existing quantitative models describing the vocabulary size and text length relationship. 8,334 samples were randomly drawn from the British National Corpus, totaling 8,001,000 tokens. The result shows that the models by Herdan and Brunet can capture the dynamic inter-textual type-token relationship, and the latter is also robust in extrapolation.

Peust, Carsten
Script complexity revisited 11-15

Abstract: A simple method for quantifying the complexity of graphical signs is suggested. The complexity is defined as the number of crossing points which can maximally be achieved with an overlapping straight line. In signs composed of several disconnected elements, the complexity is to be computed for each element separately. This method is compared with another complexity measure serving a similar purpose recently proposed by Altmann.

Jayaram, B.D.; Vidya, M.N.
Word length distribution in Indian languages 16-38

Abstract. The paper investigates Indian Language pattern with respect to word length distribution. The languages selected are Assamese, Marathi and Hindi belonging to Indo-Aryan family and Kannada and Tamil belonging to Dravidian Family. It examines data of different registers like Aesthetics, Social Science, Natural, Physical and Professional Sciences, Official and Media languages and Translated Material. It is observed that no single distribution fits across languages while across registers a single distribution fits majority of samples.

Best, Karl-Heinz
Gesetzmäßigkeiten im Erstspracherwerb 39-54

Abstract. Language acquisition abides by laws. These laws seem to be the same as in language change and text production. If one considers the stages of language acquisition separately then there are further models controlling distributions, rank orders and processes. This paper yields some evidence for these laws.
Dzurjuk, Tetjana
Sentence length as a feature of style (applied to works of German writers) 55-62

Abstract. Sentence length in German is studied in three formal length categories and three genres. We try to characterize the individual writer by means of a vector of properties which can be used both for classification and the study of development.

Yokoyama, Shoichi; Wada, Yukiko
A logistic regression model of variant preference in Japanese kanji: an integration of mere exposure effect and generalized matching law 63-74

Abstract. The word hinoki or ‘cypress’ can be transcribed in two variant forms, 檜 (the so-called “traditional” variant) and 槲 (the “simplified” variant), in Japanese kanji. Such variant forms are called kanji variants. The present paper reviews a series of studies on Japanese kanji recognition (Yokoyama, 2006a, 2006b, 2006c), and proposes a logistic regression model which accounts for performance in a preference judgment task based on kanji frequency data. Yokoyama (2006a) administers preference and familiarity judgment tasks in which the participants were presented with 263 pairs of traditional and simplified variants and asked to choose the more preferable or familiar variant of each pair. The analyses indicate a positive contribution of frequency to variant preferences, supporting the so-called “mere exposure effect” theory of Zajonc (1968). This finding leads to a logistic regression model that describes preference behavior in kanji recognition, based on Fechner’s law. Yokoyama (2006b) shows that the model is comparable to the so-called “generalized matching law” of Baum (1974) and to the “ideal free distribution theory” of Fagen (1987). Yokoyama (2006c) further examines the predictive validity of the model with empirical data obtained from a preference judgment task, administered in the Tokyo and Kyoto areas. Logistic regression analyses are performed with the ratio of preference for the given variants and the logit of the character frequencies, yielding significant correlations between the predicted probabilities and the observed responses (r = .804 for Asahi newspaper data). The present paper synthesizes these studies and proposes a logistic regression model that efficiently describes preference behavior in Japanese kanji recognition, integrating the theoretical perspectives of the mere exposure effect and the generalized matching law.

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