

Communicative Efficiency in the Lexicon



In this dissertation, I argue that a variety of probabilistic patterns in natural language phonology derive from communicative efficiency. I present evidence from phonetically transcribed dictionaries of 60 languages from 25 major language families showing that both probability distributions over phonological structures licensed by the categorical grammar, and the global organization of the phonological lexicon as a whole facilitate the efficient communication of intended messages from speaker to listener. Specifically, I show that the occurrence probabilities of different grammatical structures render natural language phonology an efficient code for communication given the effort involved in producing different categories and the specific kinds of noise introduced by the human language channel. I also present evidence that co-occurrence restrictions on consonants sharing place features serve a communicative purpose in that they facilitate the identification of words with respect to each other. Furthermore, I show that the organization of the phonological lexicon as a whole is subject to communicative efficiency. Concretely, I show that words in human language preferentially rely on highly perceptible contrasts for distinctness, beyond what is expected from the probabilistic patterning of the individual sounds that distinguish them. This shows that redundancy in the phonological code is not randomly distributed, but exists to supplement imperceptible distinctions between larger units as needed. I argue that cross-linguistic biases in the distributions of individual sounds arise from humans using their language in ways that accommodate anticipated mistransmission (Jurafsky et al. 2001, van Son and Pols 2003, Aylett and Turk 2004) thus presenting a serious challenge to theories relegating the emergence of communicative efficiency in phonology to

properties of the human language channel only (Ohala 1981, Blevins 2004, 2006). Furthermore, I present preliminary computational and experimental evidence that the optimization of the lexicon as a whole could have arisen from the aggregate effects of speakers biases to use globally distinct word forms over the course of a languages history (cf Martin, 2007).

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utility: processing complexity and communicative efficiency Worse still, it is sometimes assumed that communicative efficiency causes The general view here is that gestures simply compensate (for lexical items) by **Communicative Efficiency in the Lexicon** - of communicative efficiency in grammatical number mark- ing, in particular the individuals tend to be expressed with lexical items that have a plural meaning **The structure of the lexicon reflects principles of communication** Apr 13, 2016 Consistent with the hypothesis of efficient communication, we find that For example, it is known that complexity of the lexicon in several **Efficiency of lexical prediction as a communication acceleration Skills for Effective Business Communication: Efficiency** Sep 30, 2014 Efficiency, Collaboration, and Success Murphy Skills for Effective Business Communication HKS at Harvard University Lexical, syntactic, **Communicative Efficiency in the Lexicon MITWPL** Jul 12, 2009 This study evaluated the performance of a lexical prediction communication program. It showed that lexical prediction saves key/switch approaches that link preferences in production to communicative efficiency. These approaches . lexical decision and ERP studies suggest that words denoting **Word lengths are optimized for efficient communication - TedLab** Lexical clustering in efficient language design affects the probability of finding word W in lexicon L.. -If the real . (2012). Communicative Efficiency in the. **Some adaptive properties of the lexicon with respect to efficient** The structure of the lexicon reflects principles of communication. Molly Lewis .. may be the result of an efficient naming strategy, while the in-the-moment **The Communicative Lexicon Hypothesis - ResearchGate** Lexical stress. Referring expression choice. Some adaptive properties of the lexicon with respect to efficient communication. Harry Tily joint work with Steve **Lexicon creation to promote faculty development in medical - NCBI** Oct 7, 2008 Lexicon creation to promote faculty development in medical for creating a communication lexicon may be an efficient and effective way to **Lexical clustering in efficient**

language design - MIT Communicative Efficiency in the Lexicon [Peter Graff] on . *FREE* shipping on qualifying offers. In this dissertation, I argue that a variety of **Communicative efficiency in language production and learning** In this dissertation, I argue that a variety of probabilistic patterns in natural language phonology derive from communicative efficiency. I present evidence from **Efficiency of Lexical Prediction as a Communication - ResearchGate** Jul 24, 2013 Communicative Efficiency in the Lexicon by. Peter Nepomuk Herwig Maria Graff. M.A. with First Class Honours in English Language and **The Mental Lexicon: Core Perspectives - Google Books Result** Lexical typology from a cognitive and linguistic point of view. In Martin Segmental inventory size, word length, and communicative efficiency. *Linguistics* 33 (2): **none Communicative Efficiency in the Lexicon: Peter Graff - KEY WORDS:** acceleration, augmentative and alternative communication, assistive devices, lexical prediction, rate of efficiency. Two major considerations in the **The Lexical Typology of Semantic Shifts - Google Books Result** Or are the lexical categories of this domain, like those of other domains, shaped by the need for efficient communication, despite semantic chaining? The studies **The Communicative Lexicon Hypothesis - colala** Although it makes sense to assume that the communicative efficiency of speech is enhanced by the hyperarticulation of informationally more salient segments **Historical semantic chaining and efficient communication: The case** epub downloader Communicative Efficiency in the Lexicon,download this life Communicative Efficiency in the Lexicon,Communicative Efficiency in the Lexicon **Lexical prescriptivism reduces communicative efficiency (bibtex)** Communicative Efficiency in the Lexicon by Peter Nepomuk Herwig Maria Graff M.A. with First Class Honours in English Language and Linguistics, University of **Languages Support Efficient Communication about the Environment** The structure of the lexicon reflects principles of communication. Molly Lewis .. may be the result of an efficient naming strategy, while the in-the-moment **The structure of the lexicon reflects principles of communication** This study evaluated the performance of a lexical prediction communication program. It showed that lexical prediction saves key/switch activation effort by as **Efficiency of lexical prediction as a communication acceleration** Communicative Efficiency in the Lexicon by Peter Nepomuk Herwig Maria Graff M.A. with First Class Honours in English Language and Linguistics, University of **Communicative Efficiency in the Lexicon** communicative efficiency. be maximally concise and efficient if words occur independently A lexicon that assigns word lengths based on information. **Communicative Efficiency in the Lexicon -** @article{piantadosi2014lexical, title={Lexical prescriptivism reduces communicative efficiency}, author={Steven T. Piantadosi and K. Mahowald and C. Kidd and