Neuroscience Of Language

Puts forth a systematic model of language to bridge the gap between linguistics and neuroscience.How is language organized in the human brain? The Neuroscience of Language puts forth a systematic model of language to bridge the gap between linguistics and neuroscience. Neuronal models of word and serial order processing are presented in the form of a computational, connectionist neural network. The linguistic emphasis is on words and elementary syntactic rules. Introductory chapters focus on neuronal structure and function, cognitive brain processes, the basics of classical aphasia research and modern neuroimaging of language, neural network approaches to language, and the basics of syntactic theories. The essence of the work is contained in chapters on neural algorithms and networks, basic syntax, serial order mechanisms, and neuronal grammar. Throughout, excursuses illustrate the functioning of brain models of language, some of which are accessible as animations on the book's accompanying web site. It will appeal to graduate students and researchers in neuroscience, psychology, linguistics, and computational modeling. EAN/ISBN : 9780511060779 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Pulvermuller, Friedemann

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