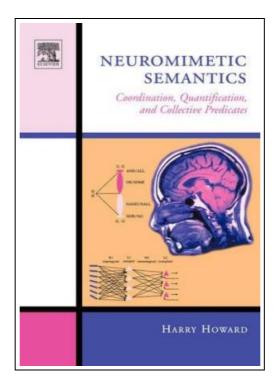
# Neuromimetic Semantics: Coordination, quantification, and collective predicates (Hardback)



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### Reviews

Completely one of the best ebook I actually have possibly study. It can be writter in simple phrases and not confusing. You can expect to like the way the author write this book.

(Josefa Ebert)

## NEUROMIMETIC SEMANTICS: COORDINATION, QUANTIFICATION, AND COLLECTIVE PREDICATES (HARDBACK)



ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2004. Hardback. Condition: New. New. Language: English. Brand New Book. This book attempts to marry truth-conditional semantics with cognitive linguistics in the church of computational neuroscience. To this end, it examines the truth-conditional meanings of coordinators, quantifiers, and collective predicates as neurophysiological phenomena that are amenable to a neurocomputational analysis. Drawing inspiration from work on visual processing, and especially the simple/complex cell distinction in early vision (V1), we claim that a similar two-layer architecture is sufficient to learn the truth-conditional meanings of the logical coordinators and logical quantifiers. As a prerequisite, much discussion is given over to what a neurologically plausible representation of the meanings of these items would look like. We eventually settle on a representation in terms of correlation, so that, for instance, the semantic input to the universal operators (e.g. and, all) is represented as maximally correlated, while the semantic input to the universal negative operators (e.g. nor, no) is represented as maximally anticorrelated. On the basis this representation, the hypothesis can be offered that the function of the logical operators is to extract an invariant feature from natural situations, that of degree of correlation between parts of the situation. This result sets up an elegant formal analogy to recent models of visual processing, which argue that the function of early vision is to reduce the redundancy inherent in natural images. Computational simulations are designed in which the logical operators are learned by associating their phonological form with some degree of correlation in the inputs, so that the overall function of the system is as a simple kind of pattern recognition. Several learning rules are assayed, especially those of the Hebbian sort, which are the ones with the most neurological support. Learning vector quantization (LVQ) is shown to be a perspicuous and



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