

Parallel Distributed Processing Model



- **Basic ideas**

- Competence as interconnections between units of language knowledge
- Performance as activation of interconnections
- Learning as a process of modifying strength of connections

- **Main properties (p. 405)**

- Parallel processing of semantic & syntactic info
- Activation of one unit can inhibit or excite others in varying degrees.
- Connection strengths among units may be adjusted.

Parallel Distributed Processing

Andy Clark



Parallel Distributed Processing:

Parallel Distributed Processing, Volume 2 James L. McClelland, David E. Rumelhart, PDP Research Group, 1987-07-29 What makes people smarter than computers These volumes by a pioneering neurocomputing group suggest that the answer lies in the massively parallel architecture of the human mind They describe a new theory of cognition called connectionism that is challenging the idea of symbolic computation that has traditionally been at the center of debate in theoretical discussions about the mind The authors theory assumes the mind is composed of a great number of elementary units connected in a neural network Mental processes are interactions between these units which excite and inhibit each other in parallel rather than sequential operations In this context knowledge can no longer be thought of as stored in localized structures instead it consists of the connections between pairs of units that are distributed throughout the network Volume 1 lays the foundations of this exciting theory of parallel distributed processing while Volume 2 applies it to a number of specific issues in cognitive science and neuroscience with chapters describing models of aspects of perception memory language and thought

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Andy Clark, 1989 Microcognition provides a clear readable guide to parallel distributed processing from a cognitive philosopher's point of view **Parallel Distributed Processing** David E. Rumelhart, James L. McClelland, Parallel distributed processing research group (San Diego, Calif.), 1986

Parallel Distributed Processing, 1986 Semantic Cognition Timothy T. Rogers, James L. McClelland, 2004 A mechanistic theory of the representation and use of semantic knowledge that uses distributed connectionist networks as a starting point for a psychological theory of semantic cognition

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Neural and Conceptual Interpretations of Parallel Distributed Processing Models, 1986 Mind and brain provide two quite different perspectives for viewing cognition Yet both perspectives are informed by the study of parallel distributed processing This duality creates a certain ambiguity about the interpretation of a particular PDP model of a cognitive process Is each processing unit to be interpreted as a neuron Is the model supposed to relate to the neural implementation of the process in some less direct way A closely related set of questions arises when it is observed that PDP models of cognitive processing divide broadly into two classes In local models the activity of a single unit represents the degree of participation in the processing of a known conceptual entity a word a word sense a phoneme a motor program In distributed models the strength of patterns of activity over many units determine the degree of participation of these conceptual entities In some models these patterns are chosen in a deliberately arbitrary way so that the activity of a single unit has no apparent meaning whatever no discernible relation to the conceptual entities involved in the cognitive process On the surface at least these two types of models seem quite different Are they as different as they seem How are they related This chapter begins with a brief

consideration of the neural interpretation of PDP models of cognition These considerations serve mostly to lay out a certain perspective on the PDP modeling world to make some distinctions I have found to be valuable to introduce some terminology and to lead into the main question of this chapter How are distributed and local PDP models related The chapter ends with a discussion of how using the framework of PDP models we might forge a mathematical relationship between the principles of mind and brain *Parallel Distributed Processing:explorations In The Microstructure Of Cognition/foundations* D.E.

Rumelhart, **Parallel Distributed Processing:explorations In The Microstructure Of**

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