High-level Connectionist Models

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Since the early speech-error models of lexical access, connectionist models of produc-tion have progressed on three fronts. First, the empirical basis of the models has been extended. More generally, we believe that models such as the aphasia model are high level characteriza-tions whose insights will be useful for understanding PDP implementations such as Plaut and Kello's model or the phonological error model. In the nal section of this article, we ask whether a PDP model of grammatical encoding, one that shares many characteristics with the Plaut and Kello and phonological error models, can handle facts about the production of sentences. Connectionist approaches to cognitive modeling make use of large networks of simple computational units, which communicate by means of simple quantitative signals. Higher-level information processing emerges from the massively-parallel interaction of these units by means of their connections, and a network may adapt its behavior by means of local changes in the strength of the connections. Connectionist approaches are related to neural networks and provide a distinct alternative to cognitive models inspired by the digital computer. After defining key terms, a short history of connectionism is