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Introduction to Connectionist Modelling of Cognitive Processes

By Kim Plunkett, Peter McLeod, Edmund T. Rolls

Oxford University Press. Paperback. Book Condition: new. BRAND NEW PRINT ON DEMAND., Introduction to Connectionist Modelling of Cognitive Processes, Kim Plunkett, Peter McLeod, Edmund T. Rolls, Connectionism is a way of modelling how the brain uses streams of sensory inputs to understand the world and produce behaviour, based on cognitive processes which actually occur. This book describes the principles, and their application to explaining how the brain produces speech, forms memories and recognises faces, how intellect develops, and how it deteriorates after brain damage. Part I explores the basic concepts, the architecture and properties of the most common connectionist models, and how connectionist learning rules work. Part II describes and evaluates connectionist models of a variety of cognitive processes, including the learning and production of speech, the formation of episodic memories and visual representations, the development of cognitive processes in infancy, and their breakdown in brain-damaged patients. The models range from some well-known classics to others at the frontiers of current research. Each chapter ends with a list of recommended further reading. Also included is a disk with the software for running tlearn, a user-friendly simulator for connectionist modelling of cognitive processes, which will run on either PCs or Macs....



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