Introduction to Neural and Cognitive Modeling

Daniel S. Levine

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This text reviews the major theories of the mechanistic organization of cognitive functions -- learning, perception, categorization, motor control and decision making. An excellent introduction to neural networks, it integrates insights from neurobiology, psychology, computer science, and mathematics, making it particularly suitable for those with backgrounds in any of these fields. The history of neural networks and some of their major organizing principles are outlined here, as is the development of cognitive functions -- from the simple to the complex. Computer simulation exercises are also included, some of which implement known models, while others ask students to design networks.

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