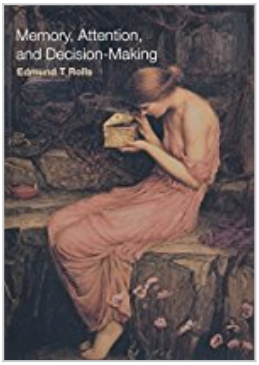

Memory, Attention, and Decision-Making: A unifying computational neuroscience approach

By Edmund Rolls

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Memory, attention, and decision-making are three major areas of cognitive neuroscience. They are, however, frequently studied in isolation, using a range of models to understand them. This book brings a unified approach to understanding these three processes. It shows how these fundamental functions for cognitive neuroscience can be understood in a common and unifying computational neuroscience framework. This framework links empirical research on brain function from neurophysiology, function neuroimaging, and the effects of brain damage, to a description of how neural networks in the brain implement these functions using a set of common principles. The book describes the principles of operation of these networks, and how they could implement such important functions as memory, attention, and decision-making.

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Editorial Review

Review

"The main strength of this book [are]...clinical links that are made to theoretical and computational models. The overall significance and contribution of computational neuroscience is quite apparent and the marriage of these models with neuropsychology and neuroimaging is well conceived."--*Doody's*

About the Author
Edmund T. Rolls is Professor of Experimental Psychology at the University of Oxford, and a Fellow and Tutor of Corpus Christi College, Oxford. He read preclinical medicine at the University of Cambridge, and now performs research in neuroscience at Oxford. His research links neurophysiological and computational neuroscience approaches to human functional neuroimaging and neuropsychological studies in order to provide a fundamental basis for understanding human brain function and its disorders. He is author of The Brain and Emotion (1999, Oxford University Press), with A.Treves of Neural Networks and Brain Function (1998, Oxford University Press), with G.Deco of Computational Neuroscience of Vision (2002, Oxford University Press) and Emotion Explained (2005, Oxford University Press).

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