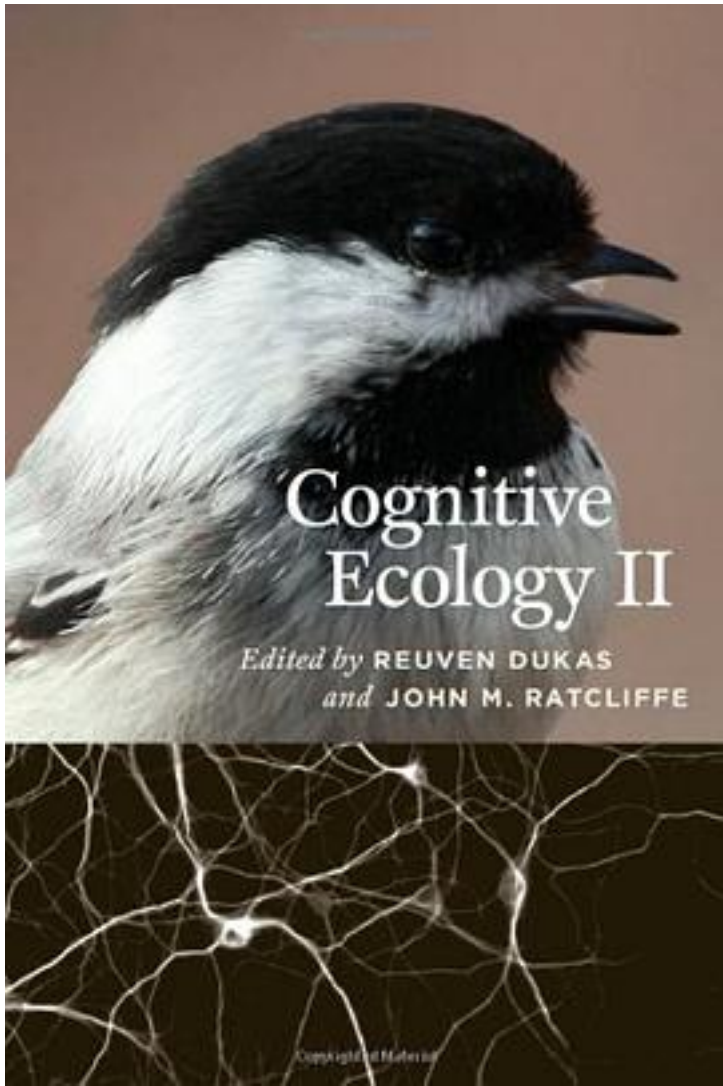


Cognitive Ecology II



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出版者:

出版时间:2009-11

装帧:

isbn:9780226169354

Merging evolutionary ecology and cognitive science, cognitive ecology investigates how animal interactions with natural habitats shape cognitive systems, and how constraints on nervous systems limit or bias animal behavior. Research in cognitive ecology has expanded rapidly in the past decade, and this second volume builds on the foundations laid out in the first, published in 1998. "Cognitive Ecology II" integrates numerous scientific disciplines to analyze the ecology and evolution of animal cognition. The contributors cover the mechanisms, ecology, and evolution of learning and memory, including detailed analyses of bee neurobiology, bird song, and spatial learning. They also explore decision making, with mechanistic analyses of reproductive behavior in voles, escape hatching by frog embryos, and predation in the auditory domain of bats and eared insects. Finally, they consider social cognition, focusing on alarm calls and the factors determining social learning strategies of corvids, fish, and mammals. With cognitive ecology ascending to its rightful place in behavioral and evolutionary research, this volume captures the promise that has been realized in the past decade and looks forward to new research prospects.

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