The Cambridge Handbook of Computational Psychology (Cambridge Handbooks in Psychology)

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This book is a definitive reference source for the growing, increasingly more important, and interdisciplinary field of computational cognitive modeling, that is, computational psychology. It combines breadth of coverage with definitive statements by leading scientists in this field. Research in computational cognitive modeling explores the essence of cognition through developing detailed, process-based understanding by specifying computational mechanisms, structures, and processes. Computational models provide both conceptual clarity and precision at the same time. This book substantiates this approach through overviews and many examples.

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"--With the publication of The Cambridge Handbook of Computational Psychology, the newly emerging, interdisciplinary field of computational cognitive modeling has come of age...a cutting-edge overview of classic and current work in computational psychology. This handbook stakes out this important and promising area of cognitive science...a definitive reference source for the rapidly growing, increasingly important, and strongly interdisciplinary field of computational cognitive modeling...The Cambridge Handbook of Computational Psychology represents a milestone, marking a number of important contributions to the larger field of cognitive science."
--Howard T. Everson, PsycCRITIQUES [May 20, 2009, Vol. 54, Release 20, Article 5]

About the Author
Dr. Ron Sun is Professor of Cognitive Science at Rensselaer Polytechnic Institute. A well-known researcher in the field of cognitive science, Sun explores the fundamental structure of the human mind and aims for the synthesis of many interesting intellectual ideas into one coherent model of cognition. The goal is to form a generic cognitive architecture that captures a variety of cognitive processes in a unified way and thus to provide unified explanations for a wide range of cognitive data. To do so, for the past two decades, he has been advocating the use of hybrid connectionist-symbolic systems in developing cognitive models and he has been developing theories of human skill learning and human everyday reasoning as the centerpieces of the cognitive architecture.

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