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Sommario/riassunto	Cognitive models and software tools have been widely used for both research and commercial purposes. Although they have proved very useful, there are some limitations preventing large-scale modeling and simulation tasks to be carried out efficiently and effectively. In this book, we aim to provide readers with a systematic overview of state-of-the-art cognitive modeling software tools and applications and an introduction to a new software framework for facilitating large-scale modeling and simulation of human-performance tasks. The authors first review cognitive modeling theories and then present an overview of state-of-the-art software tools for cognitive modeling and simulation. Finally, the book focuses on the new software framework and a research prototype called CogTool+, including how to incorporate behavioral data such as eye-tracking data in modeling and simulation tasks. Typical applications of CogTool+ in HCI and cyber security are given to demonstrate its usefulness.

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