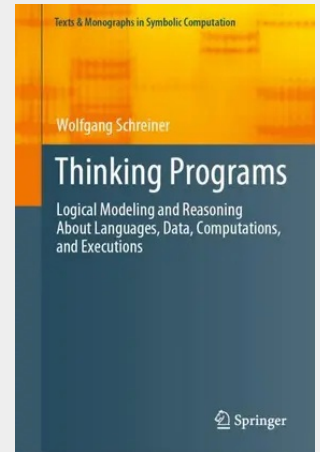


Schreiner

Thinking Programs

Logical Modeling and Reasoning About Languages, Data, Computations, and Executions

This book describes some basic principles that allow developers of computer programs (computer scientists, software engineers, programmers) to clearly *think* about the artifacts they deal with in their daily work: data types, programming languages, programs written in these languages that compute from given inputs wanted outputs, and programs that describe continuously executing systems. The core message is that clear thinking about programs can be expressed in a single universal language, the formal language of *logic*. Apart from its universal elegance and expressiveness, this "logical" approach to the formal modeling of and reasoning about computer programs has another advantage: due to advances in computational logic (automated theorem proving, satisfiability solving, model checking), nowadays much of this process can be supported by *software*. This book therefore accompanies its theoretical elaborations by practical demonstrations of various systems and tools that are based on respectively make use of the presented logical underpinnings.



106,99 €

99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783030805067

Medium: Buch

ISBN: 978-3-030-80506-7

Verlag: Springer

Erscheinungstermin: 23.10.2021

Sprache(n): Englisch

Auflage: 1. Auflage 2021

Serie: Texts & Monographs in Symbolic Computation

Produktform: Gebunden

Gewicht: 1166 g

Seiten: 636

Format (B x H): 155 x 235 mm

