Gabbrielli / Martini

Programming Languages: Principles and Paradigms

This excellent addition to the UTiCS series of undergraduate textbooks provides a detailed and up to date description of the main principles behind the design and implementation of modern programming languages. Rather than focusing on a specific language, the book identifies the most important principles shared by large classes of languages. To complete this general approach, detailed descriptions of the main programming paradigms, namely imperative, object-oriented, functional and logic are given, analysed in depth and compared. This provides the basis for a critical understanding of most of the programming languages. An historical viewpoint is also included, discussing the evolution of programming languages, and to provide a context for most of the constructs in use today. The book concludes with two chapters which introduce basic notions of syntax, semantics and computability, to provide a completely rounded picture of what constitutes a programming language.

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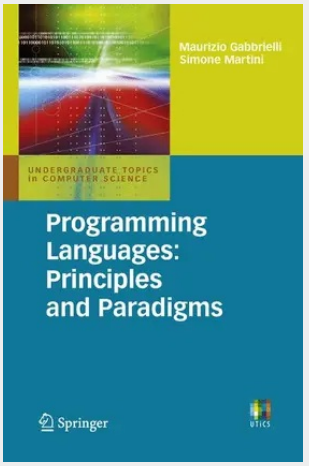

37,40 €
34,95 € (zzgl. MwSt.)

Nicht mehr lieferbar

Artikelnummer: 9781848829138
Medium: Buch
ISBN: 978-1-84882-913-8
Verlag: Springer
Erscheinungstermin: 15.04.2010
Sprache(n): Englisch
Auflage: 1. Auflage. 2010
Serie: Undergraduate Topics in Computer Science
Produktform: Kartoniert
Gewicht: 1420 g
Seiten: 440
Format (B x H): 155 x 235 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)