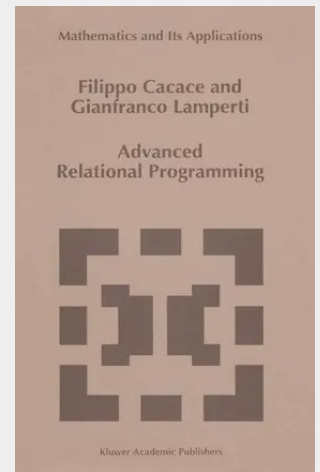


Advanced Relational Programming

Database programming is the process of developing data-intensive applications which demand the access to large amounts of structured, persistent data. The primary tool required for implementing such applications is a database programming language, namely a formal language which is specialized in the definition and manipulation of relevant large-scale data. As such, a database programming language is expected to provide high-level data modeling capabilities as well as a variety of constructs which facilitate the handling of the specified data. In this perspective, the aim of this book is: (i) to present the recent advances in database technology from the viewpoint of the novel database paradigms proposed for the development of advanced, non-standard, data-intensive applications, (ii) to focus specifically on the relational approach, with considerable emphasis on the extensions proposed in the last decade, and (iii) to describe the extended relational database language Algres which is primarily the outcome of research work conducted by the authors in cooperation with a large number of other colleagues and students. Furthermore, in order to put the concepts presented in the book into practice, the reader is invited to experiment with the Algres system, a free copy of which can be requested from Kluwer Academic Publishers, or directly from the authors. Depending on the specific interest and background of the reader, the book can serve either: (1) to overview recent trends in databases, (2) to introduce in more detail the concepts and theory of the nested relational model, or (3) to present a complete advanced relational language which can be freely used for experimental purposes within academic and research frameworks.

Database programming is the process of developing data-intensive applications which demand the access to large amounts of structured, persistent data. The primary tool required for implementing such applications is a database programming language, namely a formal language which is specialized in the definition and manipulation of relevant large-scale data. As such, a database programming language is expected to provide high-level data modeling capabilities as well as a variety of constructs which facilitate the handling of the specified data. In this perspective, the aim of this book is: (i) to present the recent advances in database technology from the viewpoint of the novel database paradigms proposed for the development of advanced, non-standard, data-intensive applications, (ii) to focus specifically on the relational approach, with considerable emphasis on the extensions proposed in the last decade, and (iii) to describe the extended relational database language Algres which is primarily the outcome of research work conducted by the authors in cooperation with a large number of other colleagues and students. Furthermore, in order to put the concepts presented in the book into practice, the reader is invited to experiment with the Algres system, a free copy of which can be requested from Kluwer Academic Publishers, or directly from the authors. Depending on the specific interest and background of the reader, the book can serve either: (1) to overview recent trends in databases, (2) to introduce in more detail the concepts and theory of the nested relational model, or (3) to present a complete advanced relational language which can be freely used for experimental purposes within academic and research frameworks.



106,99 €
99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9789401037426
Medium: Buch
ISBN: 978-94-010-3742-6
Verlag: Springer
Erscheinungstermin: 23.10.2012
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2012
Serie: Mathematics and Its Applications
Produktform: Kartoniert
Gewicht: 662 g
Seiten: 394
Format (B x H): 160 x 240 mm

