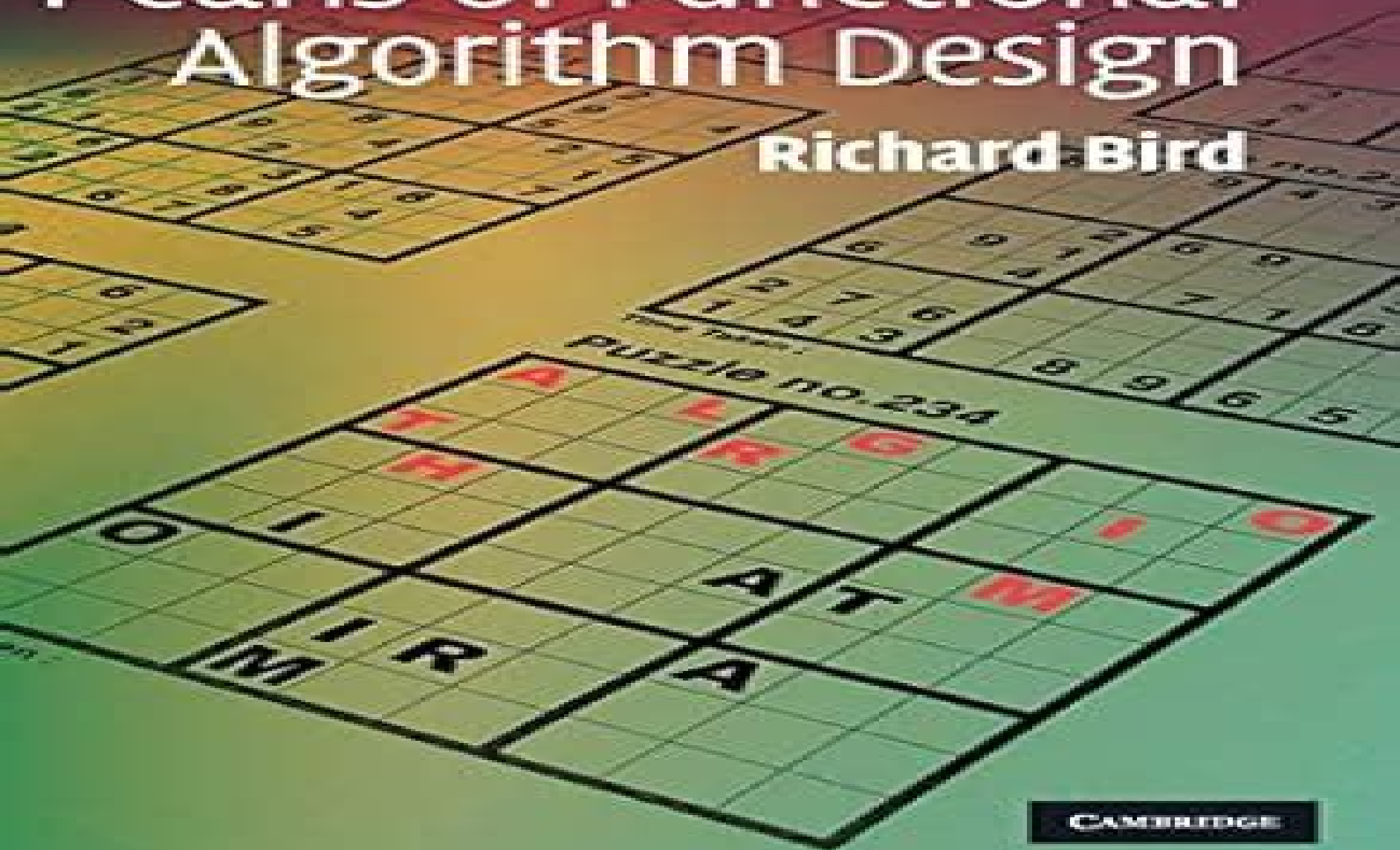# Pearls of Functional Algorithm Design

Richard Bird

Pearls Of Functional Algorithm Design

Karin Nielsen-Saines

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Cousineau,Michel Mauny,1998-10-29 A programming course should concentrate as much as possible on a program s logical structure and design rather than simply show how to write code The Functional Approach to Programming achieves this aim because logical concepts are evident and programs are transparent so can be written quickly and cleanly In this book the authors emphasise the notions of function and function application which relate programming to familiar concepts from mathematics and logic They introduce functional programming via examples but also explain what programs compute and how to reason about them They show how the ideas can be implemented in the Caml language a dialect of the ML family and give examples of how complex programs from a variety of areas such as arithmetic tree algorithms graph algorithms text parsing and geometry can be developed in close agreement with their specifications Many exercises and examples are included throughout the book solutions are also available **Fifth International Workshop on Software Specification and Design** International Workshop on Software Specification and Design,1989 *High-Performance Computing* Laurence T. Yang,Minyi Guo,2006 With hyperthreading in Intel processors hypertransport links in next generation AMD processors multi core silicon in today s high end microprocessors from IBM and emerging grid computing parallel and distributed computers have moved into the mainstream **Australian Computer Journal** ,1991 *The Australian Computer Journal* ,1990 *Business Periodicals Index* ,1974 **Proceedings** International Workshop on Software Specification and Design,1989 **Bell Laboratories Talks and Papers** Bell Telephone Laboratories. Libraries and Information Systems Center,1984 **Learning Functional Data Structures and Algorithms** Atul S. Khot,Raju Kumar Mishra,2017-02-23 Learn functional data structures and algorithms for your applications and bring their benefits to your work now About This Book Moving from object oriented programming to functional programming This book will help you get started with functional programming Easy to understand explanations of practical topics will help you get started with functional data structures Illustrative diagrams to explain the algorithms in detail Get hands on practice of Scala to get the most out of functional programming Who This Book Is For This book is for those who have some experience in functional programming languages The data structures in this book are primarily written in Scala however implementing the algorithms in other functional languages should be straight forward What You Will Learn Learn to think in the functional paradigm Understand common data structures and the associated algorithms as well as the context in which they are commonly used Take a look at the runtime and space complexities with the O notation See how ADTs are implemented in a functional setting Explore the basic theme of immutability and persistent data structures Find out how the internal algorithms are redesigned to exploit structural sharing so that the persistent data structures perform well avoiding needless copying Get to know functional features like lazy evaluation and recursion used to implement efficient algorithms Gain Scala best practices and idioms In Detail Functional data structures have the power to improve the codebase of an application and improve efficiency With the advent of functional programming and with powerful functional languages such as Scala Clojure and Elixir becoming part of

important enterprise applications functional data structures have gained an important place in the developer toolkit Immutability is a cornerstone of functional programming Immutable and persistent data structures are thread safe by definition and hence very appealing for writing robust concurrent programs How do we express traditional algorithms in functional setting Won t we end up copying too much Do we trade performance for versioned data structures This book attempts to answer these questions by looking at functional implementations of traditional algorithms It begins with a refresher and consolidation of what functional programming is all about Next you ll get to know about Lists the work horse data type for most functional languages We show what structural sharing means and how it helps to make immutable data structures efficient and practical Scala is the primary implementation languages for most of the examples At times we also present Clojure snippets to illustrate the underlying fundamental theme While writing code we use ADTs abstract data types Stacks Queues Trees and Graphs are all familiar ADTs You will see how these ADTs are implemented in a functional setting We look at implementation techniques like amortization and lazy evaluation to ensure efficiency By the end of the book you will be able to write efficient functional data structures and algorithms for your applications Style and approach Step by step topics will help you get started with functional programming Learn by doing with hands on code snippets that give you practical experience of the subject   *Purely Functional Data Structures* Chris Okasaki,1998-04-13 Most books on data structures assume an imperative language like C or C However data structures for these languages do not always translate well to functional languages such as Standard ML Haskell or Scheme This book describes data structures from the point of view of functional languages with examples and presents design techniques so that programmers can develop their own functional data structures It includes both classical data structures such as red black trees and binomial queues and a host of new data structures developed exclusively for functional languages All source code is given in Standard ML and Haskell and most of the programs can easily be adapted to other functional languages This handy reference for professional programmers working with functional languages can also be used as a tutorial or for self study   Cumulative Index to Nursing Literature Cinahl Information Systems Staff,1999

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