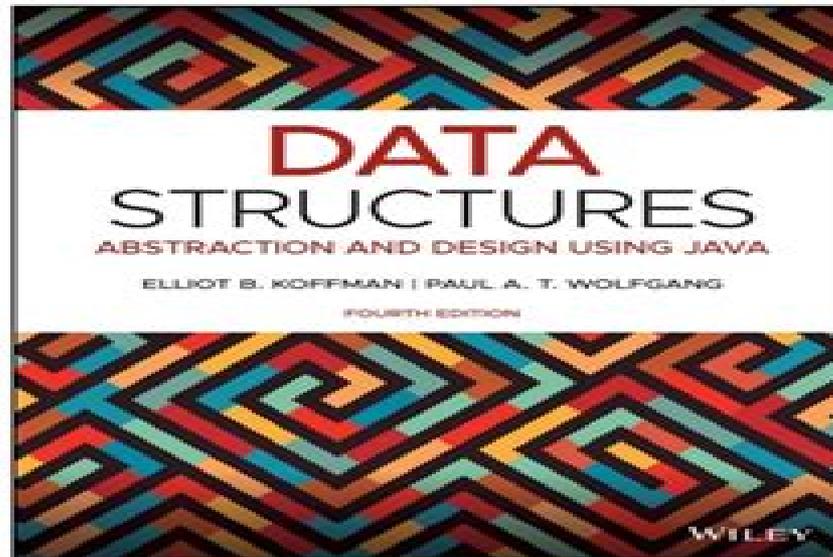


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submissions The 20 revised full papers presented in the ICCSEA 2011 part were carefully reviewed and selected from 110 submissions

Data Structures Using Java Yedidyah Langsam, Moshe Augenstein, Aaron M. Tenenbaum, 2003 This book employs an object oriented approach to teaching data structures using Java Many worked examples and approximately 300 additional examples make this book easily accessible to the reader Most of the concepts in the book are illustrated by several examples allowing readers to visualize the processes being taught Introduces abstract concepts shows how those concepts are useful in problem solving and then shows the abstractions can be made concrete by using a programming language Equal emphasis is placed on both the abstract and the concrete versions of a concept so that the reader learns about the concept itself its implementation and its application For anyone with an interest in learning more about data structures

Problem Solving, Abstraction, and Design Using C++ Frank L. Friedman, Elliot B. Koffman, 2004 Problem Solving Abstraction and Design Using C presents and then reinforces the basic principles of software engineering and object oriented programming while introducing the C programming language The hallmarks of this book are the focus on problem solving and program design This book carefully presents object oriented programming by balancing it with procedural programming so the reader does not overlook the fundamentals of algorithm organization and design

Data Structures and Algorithms in Java Michael T. Goodrich, Roberto Tamassia, Michael H. Goldwasser, 2014-03-27 The design and analysis of efficient data structures has long been recognized as a key component of the Computer Science curriculum Goodrich Tomassia and Goldwasser s approach to this classic topic is based on the object oriented paradigm as the framework of choice for the design of data structures For each ADT presented in the text the authors provide an associated Java interface Concrete data structures realizing the ADTs are provided as Java classes implementing the interfaces The Java code implementing fundamental data structures in this book is organized in a single Java package net datastructures This package forms a coherent library of data structures and algorithms in Java specifically designed for educational purposes in a way that is complimentary with the Java Collections Framework

Data Structures and Algorithms Mohamed Rahama, 2013-01-07 Research Paper undergraduate from the year 2012 in the subject Computer Science Applied grade A Atlantic International University School of Science and Engineering course Data Structures and Algorithms language English abstract This paper reviews the different ways of building data in computer systems or aspiring to the data structure as well as the searching methods in this data which is known as algorithms Data Structures and algorithms are integrated to form computer programs and in broader terms explains what is generally known as programming abstraction Data structures discuss the ways and mechanisms that we use to organize data in an integrated form in computers systems and exploitation of memory locations in an easy and structured ways such as arrays stacks queues lists linked lists and other Algorithms on the other hand are the ways in which the instructions and operations are carried out to handle information and data on the different types of data structure

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