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The aim of the book is to help students become data scientists. Since this requires a series of courses over a considerable period of time, the book intends to accompany students from the beginning to an advanced understanding of the knowledge

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and skills that define a modern data scientist. The book presents a comprehensive overview of the mathematical foundations of the programming language R and of its applications to data science.

Revised and updated with improvements conceived in parallel

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**programming courses, The Art of
Multiprocessor Programming is an**

**authoritative guide to multicore
programming. It introduces a higher
level set of software development
skills than that needed for efficient
single-core programming. This
book provides comprehensive**

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coverage of the new principles,
algorithms, and tools necessary for
effective multiprocessor
programming. Students and
professionals alike will benefit from
thorough coverage of key
multiprocessor programming
issues. This revised edition

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incorporates much-demanded updates throughout the book, based on feedback and corrections reported from classrooms since 2008 Learn the fundamentals of programming multiple threads accessing shared memory Explore mainstream concurrent data

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**structures and the key elements of
their design, as well as**

**synchronization techniques from
simple locks to transactional**

memory systems Visit the

companion site and download

source code, example Java

programs, and materials to support

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and enhance the learning
experience

Book explains how to maximize the benefits of Intel's new dual-core and multi-core processors through a portable C++ library that works on Windows, Linux, Macintosh, and Unix systems.

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Parallel Processing for Scientific

Computing

Functional Concurrency in . Net

Multithreaded Programming with

Java Technology

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**Big Data Analytics and Knowledge
Discovery**

**9th Iberoamerican Congress on
Pattern Recognition, CIARP 2004,
Puebla, Mexico, October 26-29,
2004. Proceedings**

**A Guide to Multithreaded
Programming**

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The Parallel Programming Guide for Every Software Developer From grids and clusters to next-generation game consoles, parallel computing is going mainstream. Innovations such as Hyper-Threading Technology, HyperTransport Technology, and

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multicore microprocessors from IBM, Intel, and Sun are accelerating the movement's growth. Only one thing is missing: programmers with the skills to meet the soaring demand for parallel software. That's where Patterns for Parallel Programming comes in. It's the

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first parallel programming guide written specifically to serve working software developers, not just computer scientists. The authors introduce a complete, highly accessible pattern language that will help any experienced developer "think parallel"-and start

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writing effective parallel code almost immediately. Instead of formal theory, they deliver proven solutions to the challenges faced by parallel programmers, and pragmatic guidance for using today's parallel APIs in the real world. Coverage includes:

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Understanding the parallel computing landscape and the challenges faced by parallel developers Finding the concurrency in a software design problem and decomposing it into concurrent tasks Managing the use of data across tasks Creating an algorithm

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structure that effectively exploits the
concurrency you've identified

Connecting your algorithmic structures
to the APIs needed to implement them

Specific software constructs for
implementing parallel programs

Working with today's leading parallel

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programming environments: OpenMP,

MPI, and Java Patterns have helped

thousands of programmers master

object-oriented development and other

complex programming technologies.

With this book, you will learn that

they're the best way to master parallel

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programming too.

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Software -- Programming Languages.

Until the late 1980s, information processing was associated with large mainframe computers and huge tape drives. During the 1990s, this trend shifted toward information processing

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with personal computers, or PCs. The trend toward miniaturization continues and in the future the majority of information processing systems will be small mobile computers, many of which will be embedded into larger products and interfaced to the physical

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environment. Hence, these kinds of systems are called embedded systems.

Embedded systems together with their physical environment are called cyber-physical systems. Examples include systems such as transportation and fabrication equipment. It is expected

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that the total market volume of embedded systems will be significantly larger than that of traditional information processing systems such as PCs and mainframes. Embedded systems share a number of common characteristics. For example, they must

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be dependable, efficient, meet real-time constraints and require customized user interfaces (instead of generic keyboard and mouse interfaces). Therefore, it makes sense to consider common principles of embedded system design. Embedded System Design starts with

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an introduction into the area and a survey of specification models and languages for embedded and cyber-physical systems. It provides a brief overview of hardware devices used for such systems and presents the essentials of system software for

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embedded systems, like real-time operating systems. The book also discusses evaluation and validation techniques for embedded systems. Furthermore, the book presents an overview of techniques for mapping applications to execution platforms.

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Due to the importance of resource efficiency, the book also contains a selected set of optimization techniques for embedded systems, including special compilation techniques. The book closes with a brief survey on testing. Embedded System Design can

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be used as a text book for courses on embedded systems and as a source which provides pointers to relevant material in the area for PhD students and teachers. It assumes a basic knowledge of information processing hardware and software. Courseware

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related to this book is available at [http://ls12-www.cs.tu-](http://ls12-www.cs.tu-dortmund.de/~marwedel)

[dortmund.de/~marwedel](http://ls12-www.cs.tu-dortmund.de/~marwedel).

This book contains a selection of refereed and revised papers of the Intelligent Distributed Computing Track originally presented at the third

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International Symposium on Intelligent

Informatics (ISI-2014), September

24-27, 2014, Delhi, India. The papers

selected for this Track cover several

Distributed Computing and related

topics including Peer-to-Peer

Networks, Cloud Computing, Mobile

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Clouds, Wireless Sensor Networks, and
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their applications.

Patterns for Parallel Software Design

Fundamentals of Computer

Programming with C#

Intelligent Distributed Computing

Foundations of Analog and Digital

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Electronic Circuits

Programming with POSIX Threads

6th IFIP WG 6.1 International

Conference, FMOODS 2003, Paris,

France, November 19.21, 2003,

Proceedings

This book constitutes

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the refereed proceedings
of the 19th

International Conference
on Big Data Analytics
and Knowledge Discovery,
DaWaK 2017, held in
Lyon, France, in August

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2017. The 24 revised full papers and 11 short papers presented were carefully reviewed and selected from 97 submissions. The papers are organized in the

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following topical
sections: new generation
data warehouses design;
cloud and NoSQL
databases; advanced
programming paradigms;
non-functional

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requirements

satisfaction; machine

learning; social media

and twitter analysis;

sentiment analysis and

user influence;

knowledge discovery; and

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data flow management and
optimization.

Providing an overview of
the Solaris and POSIX
multithreading
architectures, this book
explains threads at a

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level that is completely
accessible to

programmers and system

architects with no

previous knowledge of

threads. It covers the

business and technical

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benefits of threaded programs, along with discussions of third party software that is threaded, pointing out the benefits. It also describes the design of

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the Solaris MT API, with
references to
distinctions in POSIX,
contains a set of
example programs which
illustrate the usage of
the Solaris and POSIX

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APIs, and explains the
use of programming

tools: Thread Analyzer,
LockLint, LoopTool and
Debugger.

Get Real-World Insight
from Experienced

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Professionals in the
OpenGL Community With
OpenGL, OpenGL ES, and
WebGL, real-time
rendering is becoming
available everywhere,
from AAA games to mobile

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phones to web pages.

Assembling contributions

from experienced

developers, vendors,

researchers, and

educators, OpenGL

Insights presents real-

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world techniques for
intermediate and

advanced OpenGL, OpenGL

ES, and WebGL

developers. Go Beyond

the Basics The book

thoroughly covers a

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range of topics,
including OpenGL 4.2 and
recent extensions. It
explains how to optimize
for mobile devices,
explores the design of
WebGL libraries, and

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discusses OpenGL in the classroom. The contributors also examine asynchronous buffer and texture transfers, performance state tracking, and

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programmable vertex
pulling. Sharpen Your

Skills Focusing on

current and emerging

techniques for the

OpenGL family of APIs,

this book demonstrates

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the breadth and depth of
OpenGL. Readers will
gain practical skills to
solve problems related
to performance,
rendering, profiling,
framework design, and

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more.

Programming

The first book to survey
this emerging field in
digital system design.

A New Class of

Algorithms

15th International

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Conference, ICFCA 2019,
Frankfurt, Germany, June

25–28, 2019, Proceedings

Architectures,

Algorithms, and

Applications

Learning Concurrent

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Programming in Scala

Progress in Pattern

Recognition, Image

Analysis and

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Foundations and

Applications Programming

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Master the essentials of concurrent programming, including testing and debugging. This textbook examines languages and libraries for multithreaded programming. Readers learn how to create threads in Java and C++, and develop essential concurrent programming and problem-solving skills.

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Moreover, the textbook sets itself apart from other comparable works by helping readers to become proficient in keytesting and debugging techniques. Among the topics covered, readers are introduced to the relevant aspects of Java, the POSIX Pthreads library, and the Windows Win32 Applications Programming Interface. The

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authors have developed and fine-tuned this book through the concurrent programming courses they have taught for the past twenty years. The material, which emphasizes practical tools and techniques to solve concurrent programming problems, includes original results from the authors' research. Chapters include: *

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Programming
Introduction to concurrent programming *
The critical section problem * Semaphores
and locks * Monitors * Message-passing *
Message-passing in distributed programs
* Testing and debugging concurrent
programs As an aid to both students and
instructors, class libraries have been
implemented to provide working examples

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of all the material that is covered. These libraries and the testing techniques they support can be used to assess student written programs. Each chapter includes exercises that build skills in program writing and help ensure that readers have mastered the chapter's key concepts. The source code for all the

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listings in the text and for the synchronization libraries is also provided, as well as startup files and test cases for the exercises. This textbook is designed for upper-level undergraduates and graduate students in computer science. With its abundance of practical material and inclusion of working code, coupled with

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an emphasis on testing and debugging, it is also a highly useful reference for practicing programmers.

Foundations of Multithreaded, Parallel, and Distributed Programming covers, and then applies, the core concepts and techniques needed for an introductory course in this subject. Its emphasis is on

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the practice and application of parallel systems, using real-world examples throughout. Greg Andrews teaches the fundamental concepts of multithreaded, parallel and distributed computing and relates them to the implementation and performance processes. He presents the appropriate breadth of topics and

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supports these discussions with an emphasis on performance. Features Emphasizes how to solve problems, with correctness the primary concern and performance an important, but secondary, concern Includes a number of case studies which cover such topics as pthreads, MPI, and OpenMP libraries, as well as

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programming languages like Java, Ada, high performance Fortran, Linda, Occam, and SR Provides examples using Java syntax and discusses how Java deals with monitors, sockets, and remote method invocation Covers current programming techniques such as semaphores, locks, barriers, monitors, message passing, and

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Programming
remote invocation Concrete examples are
executed with complete programs, both
shared and distributed Sample

applications include scientific computing
and distributed systems

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Unlike books currently on the market, this
book attempts to satisfy two goals:

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combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept

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of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems.

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Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new

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approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

This book is a must-have tutorial for software developers aiming to write concurrent programs in Scala, or broaden

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their existing knowledge of concurrency.

This book is intended for Scala

programmers that have no prior

knowledge about concurrent

programming, as well as those seeking to

broaden their existing knowledge about

concurrency. Basic knowledge of the Scala

programming language will be helpful.

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Readers with a solid knowledge in another programming language, such as Java, should find this book easily accessible.

Intel Threading Building Blocks

Parallel Computing

Multiprocessor Systems-on-chips

Design of Multithreaded Software

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A Guide for Business and Technology
Managers

High Performance Computing

Systems and Applications

contains fully refereed papers

from the 15th Annual

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Performance Computing. These papers cover both fundamental and applied topics in HPC: parallel algorithms, distributed systems and architectures, distributed memory and performance, high level

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applications, tools and solvers,

numerical methods and

simulation, advanced computing

systems, and the emerging area

of computational grids. High

Performance Computing

Systems and Applications is

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suitable as a secondary text for graduate level courses, and as a reference for researchers and practitioners in industry.

"Multithreaded Programming with Java Technology is the first complete guide to

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*multithreaded development
with the Java 2 platform.*

*Multithreading experts Bil Lewis
and Daniel J. Berg cover the
underlying structures upon
which threads are built; thread
construction; and thread*

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lifecycles, including birth, life, death, and cancellation. Next, using extensive code examples, they cover everything developers need to know to make the most of multithreading."--BOOK

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*An introduction to the
engineering principles of
embedded systems, with a*

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focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use,

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however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base

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station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the

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software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a

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*cyber-physical approach to
embedded systems, introducing
the engineering concepts
underlying embedded systems
as a technology and as a
subject of study. The focus is on
modeling, design, and analysis*

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*of cyber-physical systems,
which integrate computation,*

networking, and physical

processes. The second edition

offers two new chapters, several

new exercises, and other

improvements. The book can be

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used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity

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*with machine structures,
computer programming, basic
discrete mathematics and
algorithms, and signals and
systems.*

*The book discusses the
fundamentals of high-*

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performance computing. The authors combine visualization, comprehensibility, and strictness in their material presentation, and thus influence the reader towards practical application and learning how to

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solve real computing problems.

They address both key

approaches to programming

modern computing systems:

multithreading-based

parallelizing in shared memory

systems, and applying message-

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programming technologies in distributed systems. The book is suitable for undergraduate and graduate students, and for researchers and practitioners engaged with high-performance computing systems. Each

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chapter begins with a theoretical part, where the relevant terminology is introduced along with the basic theoretical results and methods of parallel programming, and concludes with a list of test

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*questions and problems of
varying difficulty. The authors*

include many solutions and

hints, and often sample code.

Embedded System Design

Formal Methods for Open Object-

Based Distributed Systems

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The Art of Multiprocessor

Programming, Revised Reprint

High Performance Computing

Systems and Applications

Research and Applications in

Global Supercomputing

Parallel Metaheuristics

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Solving complex optimization

problems with parallelmetaheuristics

Parallel Metaheuristics brings together

an international group ofexperts in

parallelism and metaheuristics to

provide a much-needed synthesis of

these two fields. Readers discover

how metaheuristicstechniques can

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provide useful and practical solutions for a widerange of problems and application domains, with an emphasis on thefields of telecommunications and bioinformatics. This volume fillsa long-existing gap, allowing researchers and practitioners todevelop efficient metaheuristic

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algorithms to find solutions. The book is divided into three parts: * Part One: Introduction to Metaheuristics and Parallelism, including an Introduction to Metaheuristic Techniques, Measuring the Performance of Parallel Metaheuristics, New Technologies in Parallelism, and a head-to-head

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discussion on Metaheuristics

and Parallelism * Part Two: Parallel

Metaheuristic Models, including

Parallel Genetic Algorithms, Parallel

Genetic Programming,

Parallel Evolution Strategies, Parallel

Ant Colony Algorithms,

Parallel Estimation of Distribution

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Algorithms, Parallel Scatter

Search, Parallel Variable

Neighborhood Search, Parallel

Simulated Annealing, Parallel Tabu

Search, Parallel GRASP, Parallel

Hybrid Metaheuristics, Parallel Multi-

Objective Optimization, and

Parallel Heterogeneous Metaheuristics

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* Part Three: Theory and Applications, including Theory of Parallel Genetic Algorithms, Parallel Metaheuristics Applications, Parallel Metaheuristics in Telecommunications, and a final chapter on Bioinformatics and Parallel Metaheuristics Each self-contained chapter begins with clear overviews

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and introductions that bring the reader up to speed, describes basic techniques, and ends with a reference list for further study. Packed with numerous tables and figures to illustrate the complex theory and processes, this comprehensive volume also includes numerous practical real-

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world optimization problems and their solutions. This is essential reading for students and researchers in computerscience, mathematics, and engineering who deal with parallelism, metaheuristics, and optimization in general.

This book unravels the mystery of Big

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Data computing and its power to transform business operations. The approach it uses will be helpful to any professional who must present a case for realizing Big Data computing solutions or to those who could be involved in a Big Data computing project. It provides a framework that

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enables business and technical managers to make optimal decisions necessary for the successful migration to Big Data computing environments and applications within their organizations.

Teaching fundamental design concepts and the challenges of

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emerging technology, this textbook prepares students for a career designing the computer systems of the future. In-depth coverage of complexity, power, reliability and performance, coupled with treatment of parallelism at all levels, including ILP and TLP, provides the state-of-the-

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art training that students need. The whole gamut of parallel architecture design options is explained, from core microarchitecture to chip multiprocessors to large-scale multiprocessor systems. All the chapters are self-contained, yet concise enough that the material can

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be taught in a single semester, making it perfect for use in senior undergraduate and graduate computer architecture courses. The book is also teeming with practical examples to aid the learning process, showing concrete applications of definitions. With simple models and codes used

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throughout, all material is made open to a broad range of computer engineering/science students with only a basic knowledge of hardware and software.

Rapidly generating and processing large amounts of data, supercomputers are currently at the

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leading edge of computing technologies. Supercomputers are employed in many different fields, establishing them as an integral part of the computational sciences. Research and Applications in Global Supercomputing investigates current and emerging research in the field, as

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well as the application of this
technology to a variety of areas.

Highlighting a broad range of
concepts, this publication is a
comprehensive reference source for
professionals, researchers, students,
and practitioners interested in the
various topics pertaining to

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supercomputing and how this
technology can be applied to solve
problems in a multitude of disciplines.

Patterns for Parallel Programming

Implementing, Testing, and Debugging

Multithreaded Java and

C++/Pthreads/Win32 Programs

Introduction to Embedded Systems,

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Second Edition

Applied Parallel Computing

A Cyber-Physical Systems Approach

19th International Conference, DaWaK

2017, Lyon, France, August 28–31,

2017, Proceedings

Essential reading to understand

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patterns for parallel programming

Software patterns have

revolutionized the way we think

about how software is designed,

built, and documented, and the

design of parallel software requires

you to consider other particular

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design aspects and special skills.

From clusters to supercomputers,

success heavily depends on the

design skills of software developers.

Patterns for Parallel Software Design

presents a pattern-oriented software

architecture approach to parallel

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software design. This approach is not a design method in the classic sense, but a new way of managing and exploiting existing design knowledge for designing parallel programs. Moreover, such approaches enhance not only build-

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time properties of parallel systems,
but also, and particularly, their run-
time properties. Features known
solutions in concurrent and
distributed programming, applied to
the development of parallel
programs Provides architectural

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patterns that describe how to divide an algorithm and/or data to find a suitable partition and link it with a programming structure that allows for such a division Presents an architectural point of view and explains the development of parallel

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software Patterns for Parallel

Software Design will give you the skills you need to develop parallel software.

The constantly increasing demand for more computing power can seem impossible to keep up with.

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However, multicore processors capable of performing computations in parallel allow computers to tackle ever larger problems in a wide variety of applications. This book provides a comprehensive introduction to parallel computing,

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discussing theoretical issues such as the fundamentals of concurrent processes, models of parallel and distributed computing, and metrics for evaluating and comparing parallel algorithms, as well as practical issues, including methods

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Programming
of designing and implementing
shared- and distributed-memory

programs, and standards for parallel
program implementation, in
particular MPI and OpenMP

interfaces. Each chapter presents the
basics in one place followed by

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undergraduate or graduate students
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computer but will be deployed from
and reside on a virtual server,
accessible anywhere, any time.

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need to understand the
requirements of building apps for
these virtual systems, including

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concurrent programming, high-performance computing, and data-intensive systems. The book introduces the principles of distributed and parallel computing underlying cloud architectures and specifically focuses on virtualization,

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thread programming, task
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programming, and map-reduce

programming. There are examples

demonstrating all of these and more,

with exercises and labs throughout.

Explains how to make design

choices and tradeoffs to consider

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when building applications to run in a virtual cloud environment Real-world case studies include scientific, business, and energy-efficiency considerations

Here is a programmer's guide to using and programming POSIX

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threads, commonly known as Pthreads. A "coder's book", this title tells how to use Pthreads in the real world, making efficient and portable applications. Pthreads are an important set of current tools programmers need to have in

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today's network-intensive climate.

Modern Multithreading

OpenCL in Action

Handbook of Computational

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With Examples in C# and F#

First of all, we want to congratulate two new research communities from M-ico and Brazil that have recently joined the Iberoamerican community and the International Association for Pattern Recognition.

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We believe that the series of congresses that started as the "Taller Iberoamericano de Reconocimiento de Patrones (TIARP)", and later became the "Iberoamerican Congress on Pattern Recognition (CIARP)", has contributed to these

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group consolidation efforts. We hope that in the near future all the

Iberoamerican countries will have their own groups and associations to promote our areas of interest; and that these congresses will serve as the forum for scientific research

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exchange, sharing of expertise and new knowledge, and establishing contacts that improve cooperation between research groups in pattern recognition and related areas.

CIARP 2004 (9th Iberoamerican Congress on Pattern Recognition)

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was the ninth in a series of pioneering congresses on pattern recognition in the Iberoamerican community. As in the previous year, CIARP 2004 also included worldwide participation. It took place in Puebla, Mexico. The aim of the congress was to promote

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and disseminate ongoing research
and mathematical methods for
pattern recognition, image analysis,
and applications in such diverse
areas as computer vision, robotics,
industry, health, entertainment,
space exploration,

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telecommunications, data mining,

document analysis, and natural

language processing and recognition,

to name a few.

The enormous complexity of

biological systems at the molecular

level must be answered with

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powerful computational methods.

Computational biology is a young field, but has seen rapid growth and advancement over the past few decades. Surveying the progress made in this multidisciplinary field, the Handbook of Computational

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Molecular Biology of

This book constitutes the

proceedings of the 15th International

Conference on Formal Concept

Analysis, ICFCA 2019, held in

Frankfurt am Main, Germany, in

June 2019. The 15 full papers and 5

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short papers presented in this volume were carefully reviewed and selected from 36 submissions. The book also contains four invited contributions in full paper length. The field of Formal Concept Analysis (FCA) originated in the

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1980s in Darmstadt as a subfield of mathematical order theory, with prior developments in other research groups. Its original motivation was to consider complete lattices as lattices of concepts, drawing motivation from philosophy and

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mathematics alike. FCA has since then developed into a wide research area with applications much beyond its original motivation, for example in logic, data mining, learning, and psychology.

Functional languages help

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developers support concurrency by encouraging immutable data structures that can be passed between threads without having to worry about a shared state, all while avoiding side effects. Concurrency in .NET teaches readers how to

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build concurrent and scalable programs in .NET using the

functional paradigm. This

intermediate-level guide is aimed at

developers, architects, and

passionate computer programmers.

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computations

State of the Art in Scientific

Computing. 8th International

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Workshop, PARA 2006, Umea,

Sweden, June 18-21, 2006, Revised

Selected Papers

Big Data Computing

Multi-Threaded Programming in

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Outfitting C++ for Multi-core

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Processor Parallelism

Mathematical Foundations of Data

Science Using R

Summary OpenCL in Action

is a thorough, hands-on

presentation of OpenCL,

with an eye toward

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showing developers how to build high-performance applications of their own. It begins by presenting the core concepts behind OpenCL, including vector

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computing, parallel programming, and multi-threaded operations, and then guides you step-by-step from simple data structures to complex functions. About the

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Technology Whatever system you have, it probably has more raw processing power than you're using. OpenCL is a high-performance programming language

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that maximizes computational power by executing on CPUs, graphics processors, and other number-crunching devices. It's perfect for speed-sensitive

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tasks like vector computing, matrix operations, and graphics acceleration. About this Book OpenCL in Action blends the theory of parallel computing with

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the practical reality of building high-performance applications using OpenCL. It first guides you through the fundamental data structures in an

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intuitive manner. Then,
it explains techniques
for high-speed sorting,
image processing, matrix
operations, and fast
Fourier transform. The
book concludes with a

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deep look at the all-
important subject of
graphics acceleration.
Numerous challenging
examples give you
different ways to
experiment with working

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code. A background in C

or C++ is helpful, but

no prior exposure to

OpenCL is needed.

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for maximum performance

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partitioning Kernel

programming: data types

and device memory Kernel

programming: operators

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and functions Image

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profiling, and

synchronization

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Development with Java

and Python General

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Matrices and QR

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Fourier transform PART 3

ACCELERATING OPENGL WITH

OPENCL Combining OpenCL

and OpenGL Textures and

renderbuffers

Programming multi-core

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and many-core computing

systems Sabri Pllana,

Linnaeus University,

Sweden Fatos Xhafa,

Technical University of

Catalonia, Spain

Provides state-of-the-

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Programming

art methods for
programming multi-core
and many-core systems

The book comprises a
selection of twenty two
chapters covering:
fundamental techniques

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and algorithms;

programming approaches;

methodologies and

frameworks; scheduling

and management; testing

and evaluation
methodologies; and case

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Programming
studies for programming
multi-core and many-core

systems. Program

development for multi-

core processors,

especially for

heterogeneous multi-core

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processors, is

significantly more

complex than for single-

core processors.

However, programmers

have been traditionally

trained for the

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development of sequential programs, and only a small percentage of them have experience with parallel programming. In the past, only a relatively

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small group of
programmers interested
in High Performance
Computing (HPC) was
concerned with the
parallel programming
issues, but the

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situation has changed dramatically with the appearance of multi-core processors on commonly used computing systems. It is expected that with the pervasiveness of

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Programming
multi-core processors,
parallel programming

will become mainstream.

The pervasiveness of
multi-core processors
affects a large spectrum
of systems, from

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Programming
embedded and general-
purpose, to high-end

computing systems. This

book assists programmers

in mastering the

efficient programming of

multi-core systems,

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which is of paramount importance for the software-intensive industry towards a more effective product-development cycle. Key features: Lessons,

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challenges, and roadmaps ahead. Contains real world examples and case studies. Helps programmers in mastering the efficient programming of multi-

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core and many-core systems. The book serves as a reference for a larger audience of practitioners, young researchers and graduate level students. A basic

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level of programming
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knowledge is required to
use this book.

This volume contains the
proceedings of FMOODS
2003, the 6th IFIP WG 6.
1 International

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Conference on Formal

Methods for Open Object-
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Systems. The conference
was held in Paris,

France on November

19-21, 2003. The event

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was the sixth meeting of this conference series, which is held roughly every year and a half, the earlier events having been held in Paris, Canterbury,

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Florence, Stanford, and

Twente. The goal of the FMOO

DS series of conferences is to

bring together researchers

whose work encompasses

three important and

related fields: – formal

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methods; – distributed systems; – object-based technology. Such a convergence is representative of recent advances in the field of distributed systems, and p

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provides links between several
also scientific and technological
communities, as
represented by the
conferences FORTE/PSTV,
CONCUR, and ECOOP. The
objective of FMOODS is

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to provide an integrated forum for the presentation of research in the above-mentioned fields, and the exchange of ideas and experiences in the topics concerned

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with the formal methods support for open object-based distributed systems. For the call for papers, aspects of interest of the considered systems

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included, but were not limited to: formal models; formal techniques for specification, design or analysis; component-based design;

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veri?cation, testing and
validation; semantics of
programming,
coordination, or
modeling languages; type
systems for programming,
coordination or

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modelling languages;
behavioral typing;
multiple viewpoint
modelling and
consistency - tween
different models;
transformations of

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models; integration of quality of s-vice requirements into formal models; formal models for security; and applications and experience, carefully described.

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Scientific computing has often been called the third approach to scientific discovery, emerging as a peer to experimentation and theory. Historically,

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the synergy between
experimentation and
theory has been well
understood: experiments
give insight into
possible theories,
theories inspire

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experiments, experiments
reinforce or invalidate
theories, and so on. As
scientific computing has
evolved to produce
results that meet or
exceed the quality of

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experimental and
theoretical results, it

has become

indispensable. Parallel

processing has been an

enabling technology in

scientific computing for

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more than 20 years. This book is the first in-depth discussion of parallel computing in 10 years; it reflects the mix of topics that mathematicians, computer

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scientists, and

computational scientists

focus on to make

parallel processing

effective for scientific

problems. Presently, the

impact of parallel

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processing on scientific computing varies greatly across disciplines, but it plays a vital role in most problem domains and is absolutely essential in many of them.

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Parallel Processing for
Scientific Computing is
divided into four parts:

The first concerns

performance modeling,

analysis, and

optimization; the second

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focuses on parallel algorithms and software for an array of problems common to many modeling and simulation applications; the third emphasizes tools and

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environments that can ease and enhance the process of application development; and the fourth provides a sampling of applications that require parallel

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computing for scaling to solve larger and realistic models that can advance science and engineering. This edited volume serves as an up-to-date reference for

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researchers and
application developers
on the state of the art
in scientific computing.
It also serves as an
excellent overview and
introduction, especially

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for graduate and senior-level undergraduate students interested in computational modeling and simulation and related computer science and applied mathematics

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Mastering Cloud

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The Entity-Life Modeling

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Approach
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This book constitutes the thoroughly refereed post-proceedings of the 8th International Workshop on Applied Parallel Computing, PARA 2006. It covers partial

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differential equations, parallel

scientific computing

algorithms, linear algebra,

simulation environments,

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for blue gene/L, scientific

computing tools and

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applications, parallel search

algorithms, peer-to-peer

computing, mobility and

security, algorithms for single-
chip multiprocessors.

This book assumes familiarity
with threads (in a language

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such as Ada, C#, or Java) and introduces the entity-life modeling (ELM) design approach for certain kinds of multithreaded software. ELM focuses on "reactive systems," which continuously

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interact with the problem environment. These "reactive systems" include embedded systems, as well as such interactive systems as cruise controllers and automated teller machines. Part I covers

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two fundamentals: program-language thread support and state diagramming. These are necessary for understanding ELM and are provided primarily for reference. Part II covers ELM from different

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angles. Part III positions ELM relative to other design approaches.

This is a clear introduction to the basic concepts of multi-threading complemented by a detailed description of the

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multi-threading facilities available under the UNIX and Windows operating systems. The implementation mechanisms are hidden within C++ classes, which then provide standardized

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interfaces to the functionality.

With traditional single-

threaded programming,

objects serve as passive

repositories of functionality

that are invoked by external

code multi-threading allows

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objects to become active
entities that independently

perform their own processing.

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programming and software
development like variables,

data types, conditional

statements, loops and arrays

and continues with other basic

topics like methods, numeral

systems, strings and string

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programming, exceptions,

classes and objects. After the

basics this fundamental

programming book enters into

more advanced programming

topics like recursion, data

structures (lists, trees, hash-

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tables and graphs), high-quality code, unit testing and

refactoring, object-oriented

principles (inheritance,

abstraction, encapsulation and

polymorphism) and their

implementation the C#

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language. It also covers
fundamental topics that each
good developer should know
like algorithm design,
complexity of algorithms and
problem solving. The book
uses C# language and Visual

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Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team

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of developers lead by Svetlin

Nakov who has 20+ years

practical software

development experience. It

teaches the major

programming concepts and

way of thinking needed to

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become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The books does not teach technologies like

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databases, mobile and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is good for beginners and intermediate

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English Published: Sofia, 2013

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systems, methods, strings,
text processing, StringBuilder,

exceptions, exception

handling, stack trace, streams,

files, text files, linear data

structures, list, linked list,

stack, queue, tree, balanced

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tree, graph, depth-first search,

DFS, breadth-first search,

BFS, dictionaries, hash tables,

associative arrays, sets,

algorithms, sorting algorithm,

searching algorithms,

recursion, combinatorial

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algorithms, algorithm
complexity, OOP, object-
oriented programming,
classes, objects, constructors,
fields, properties, static
members, abstraction,
interfaces, encapsulation,

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inheritance, virtual methods,
polymorphism, cohesion,
coupling, enumerations,
generics, namespaces, UML,
design patterns, extension
methods, anonymous types,
lambda expressions, LINQ,

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code, high-quality classes,

high-quality methods, code

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code, code refactoring,

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