

Michel Raynal

# Concurrent Programming: Algorithms, Principles, and Foundations

 Springer

# Concurrent Programming Algorithms Principles And Foundations

**Michel Raynal**



## **Concurrent Programming Algorithms Principles And Foundations:**

**Concurrent Programming: Algorithms, Principles, and Foundations** Michel Raynal, 2012-12-23 The advent of new architectures and computing platforms means that synchronization and concurrent computing are among the most important topics in computing science Concurrent programs are made up of cooperating entities processors processes agents peers sensors and synchronization is the set of concepts rules and mechanisms that allow them to coordinate their local computations in order to realize a common task This book is devoted to the most difficult part of concurrent programming namely synchronization concepts techniques and principles when the cooperating entities are asynchronous communicate through a shared memory and may experience failures Synchronization is no longer a set of tricks but due to research results in recent decades it relies today on sane scientific foundations as explained in this book In this book the author explains synchronization and the implementation of concurrent objects presenting in a uniform and comprehensive way the major theoretical and practical results of the past 30 years Among the key features of the book are a new look at lock based synchronization mutual exclusion semaphores monitors path expressions an introduction to the atomicity consistency criterion and its properties and a specific chapter on transactional memory an introduction to mutex freedom and associated progress conditions such as obstruction freedom and wait freedom a presentation of Lamport's hierarchy of safe regular and atomic registers and associated wait free constructions a description of numerous wait free constructions of concurrent objects queues stacks weak counters snapshot objects renaming objects etc a presentation of the computability power of concurrent objects including the notions of universal construction consensus number and the associated Herlihy's hierarchy and a survey of failure detector based constructions of consensus objects The book is suitable for advanced undergraduate students and graduate students in computer science or computer engineering graduate students in mathematics interested in the foundations of process synchronization and practitioners and engineers who need to produce correct concurrent software The reader should have a basic knowledge of algorithms and operating systems

**Concurrent Programming: Algorithms, Principles, and Foundations** Michel Raynal, 2012-12-30 This book is devoted to the most difficult part of concurrent programming namely synchronization concepts techniques and principles when the cooperating entities are asynchronous communicate through a shared memory and may experience failures Synchronization is no longer a set of tricks but due to research results in recent decades it relies today on sane scientific foundations as explained in this book In this book the author explains synchronization and the implementation of concurrent objects presenting in a uniform and comprehensive way the major theoretical and practical results of the past 30 years Among the key features of the book are a new look at lock based synchronization mutual exclusion semaphores monitors path expressions an introduction to the atomicity consistency criterion and its properties and a specific chapter on transactional memory an introduction to mutex freedom and associated progress conditions such as obstruction freedom and wait freedom a presentation of Lamport's hierarchy of safe regular and

atomic registers and associated wait free constructions a description of numerous wait free constructions of concurrent objects queues stacks weak counters snapshot objects renaming objects etc a presentation of the computability power of concurrent objects including the notions of universal construction consensus number and the associated Herlihy's hierarchy and a survey of failure detector based constructions of consensus objects The book is suitable for advanced undergraduate students and graduate students in computer science or computer engineering graduate students in mathematics interested in the foundations of process synchronization and practitioners and engineers who need to produce correct concurrent software The reader should have a basic knowledge of algorithms and operating systems      *Nonsequential and Distributed*

*Programming with Go* Christian Maurer, 2015-08-02 After a short chapter on basic aspects of software engineering and its realization in Go this book introduces to nonsequential and distributed programming with Go It systematically presents basic concepts for the synchronization and communication of concurrent processes These include locks semaphores fairness and deadlocks monitors local and network wide message passing networks as graphs network exploration distributed depth and breadth first search and the selection of a leader in networks In order to make readers familiar with the concepts the author always takes up the same classic examples This makes learning easier because the concepts presented can be compared more easily with the language resources The algorithms are formulated in the Go programming language which can be used to express numerous synchronization concepts Due to its simple syntax Go also offers the advantage that readers without prior knowledge can follow the basic concepts The chapters on locks semaphores monitors and network wide message passing also present some basic approaches to programming in C and Java All source texts are available online Besides a number of error corrections and smaller updates in this second edition the nanouniverse nU is replaced with the microuniverse U This allows for beautiful animations in many places which are not possible with the nanouniverse due to a lack of the necessary support for inputs and outputs e.g. in the chapters on fairness messages farMonitors traversals and election      **Distributed Computing** Yehuda Afek, 2013-10-04 This book constitutes the proceedings of the 27th

International Symposium on Distributed Computing DISC 2013 held in Jerusalem Israel in October 2013 The 27 full papers presented in this volume were carefully reviewed and selected from 142 submissions 16 brief announcements are also included The papers are organized in topical sections named graph distributed algorithms topology leader election and spanning trees software transactional memory shared memory executions shared memory and storage gossip and rumor shared memory tasks and data structures routing radio networks and the SINR model crypto trust and influence and networking      Principles of Distributed Systems Marcos K. Aguilera, Leonardo Querzoni, Marc Shapiro, 2014-12-09 This book constitutes the refereed proceedings of the 18th International Conference on Principles of Distributed Systems OPODIS 2014 Cortina d'Ampezzo Italy in December 2014 The 32 papers presented together with two invited talks were carefully reviewed and selected from 98 submissions The papers are organized in topical sections on consistency distributed graph algorithms

fault tolerance models radio networks robots self stabilization shared data structures shared memory synchronization and universal construction

**Euro-Par 2015: Parallel Processing** Jesper Larsson Träff, Sascha Hunold, Francesco Versaci, 2015-07-24 This book constitutes the refereed proceedings of the 21st International Conference on Parallel and Distributed Computing Euro Par 2015 held in Vienna Austria in August 2015 The 51 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 190 submissions The papers are organized in the following topical sections support tools and environments performance modeling prediction and evaluation scheduling and load balancing architecture and compilers parallel and distributed data management grid cluster and cloud computing distributed systems and algorithms parallel and distributed programming interfaces and languages multi and many core programming theory and algorithms for parallel computation numerical methods and applications and accelerator computing

Networked Systems Mohammed-Amine Koulali, Mira Mezini, 2022-09-27 This book constitutes the revised selected papers of the 10th International Conference on Networked Systems NETYS 2022 held as virtual event in May 17 19 2022 The conference was held virtually due to the COVID 19 crisis The 18 full papers and 2 short papers presented were carefully reviewed and selected from 100 submissions The scope of the conference covers all aspects related to the design and the development of these systems including multi core architectures Concurrent and distributed algorithms parallel concurrent distributed programming distributed databases big data applications and systems cloud systems networks security and formal verification They were organized in topical sections as follows Distributed System Networking Verification Security

**The French School of Programming** Bertrand Meyer, 2024-04-29 The French School of Programming is a collection of insightful discussions of programming and software engineering topics by some of the most prestigious names of French computer science The authors include several of the originators of such widely acclaimed inventions as abstract interpretation the Caml OCaml and Eiffel programming languages the Coq proof assistant agents and modern testing techniques The book is divided into four parts Software Engineering A Programming Language Mechanisms and Type Systems B Theory C and Language Design and Programming Methodology D They are preceded by a Foreword by Bertrand Meyer the editor of the volume a Preface by Jim Woodcock providing an outsider's appraisal of the French school's contribution and an overview chapter by Gérard Berry recalling his own intellectual journey Chapter 2 by Marie Claude Gaudel presents a 30 year perspective on the evolution of testing starting with her own seminal work In chapter 3 Michel Raynal covers distributed computing with an emphasis on simplicity Chapter 4 by Jean Marc Jézoulet former director of IRISA presents the evolution of modeling from CASE tools to SLE and Machine Learning Chapter 5 by Joëlle Coutaz is a comprehensive review of the evolution of Human Computer Interaction In part B chapter 6 by Jean Pierre Briot describes the sequence of abstractions that led to the concept of agent Chapter 7 by Pierre Louis Curien is a personal account of a journey through fundamental concepts of semantics syntax and types In chapter 8 Thierry Coquand presents some remarks on

dependent type theory Part C begins with Patrick Cousot's personal historical perspective on his well known creation abstract interpretation in chapter 9 Chapter 10 by Jean Jacques Levy is devoted to tracking redexes in the Lambda Calculus The final chapter of that part chapter 11 by Jean Pierre Jouannaud presents advances in rewriting systems specifically the confluence of terminating rewriting computations Part D contains two longer contributions Chapter 12 is a review by Giuseppe Castagna of a broad range of programming topics relying on union intersection and negation types In the final chapter Bertrand Meyer covers ten choices in language design for object oriented programming distinguishing between right and wrong resolutions of these issues and explaining the rationale behind Eiffel's decisions This book will be of special interest to anyone with an interest in modern views of programming on such topics as programming language design the relationship between programming and type theory object oriented principles distributed systems testing techniques rewriting systems human computer interaction software verification and in the insights of a brilliant group of innovators in the field

**Concurrent Crash-Prone Shared Memory Systems** Michel Raynal, 2022-03-22 Theory is what remains true when technology is changing So it is important to know and master the basic concepts and the theoretical tools that underlie the design of the systems we are using today and the systems we will use tomorrow This means that given a computing model we need to know what can be done and what cannot be done in that model Considering systems built on top of an asynchronous read write shared memory prone to process crashes this monograph presents and develops the fundamental notions that are universal constructions consensus numbers distributed recursivity power of the BG simulation and what can be done when one has to cope with process anonymity and or memory anonymity Numerous distributed algorithms are presented the aim of which is being to help the reader better understand the power and the subtleties of the notions that are presented In addition the reader can appreciate the simplicity and beauty of some of these algorithms

*Leveraging Applications of Formal Methods, Verification and Validation. Verification Principles* Tiziana Margaria, Bernhard Steffen, 2022-10-19 This four volume set LNCS 13701 13704 constitutes contributions of the associated events held at the 11th International Symposium on Leveraging Applications of Formal Methods ISoLA 2022 which took place in Rhodes Greece in October November 2022 The contributions in the four volume set are organized according to the following topical sections specify this bridging gaps between program specification paradigms x by construction meets runtime verification verification and validation of concurrent and distributed heterogeneous systems programming what is next the role of documentation automated software re engineering DIME day rigorous engineering of collective adaptive systems formal methods meet machine learning digital twin engineering digital thread in smart manufacturing formal methods for distributed computing in future railway systems industrial day

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