



Concurrent and Distributed Computing in Java

By Vijay K. Garg

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Concurrent and Distributed Computing in Java addresses fundamental concepts in concurrent computing with Java examples. The book consists of two parts. The first part deals with techniques for programming in shared-memory based systems. The book covers concepts in Java such as threads, synchronized methods, waits, and notify to expose students to basic concepts for multi-threaded programming. It also includes algorithms for mutual exclusion, consensus, atomic objects, and wait-free data structures.

The second part of the book deals with programming in a message-passing system. This part covers resource allocation problems, logical clocks, global property detection, leader election, message ordering, agreement algorithms, checkpointing, and message logging. Primarily a textbook for upper-level undergraduates and graduate students, this thorough treatment will also be of interest to professional programmers.

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Editorial Review

Review

"...a detailed yet readable introduction to concurrency and distributed computing." (*Computing Reviews.com*, April 9, 2004)

"...well-written and accurate...a good book for anyone who'd like hands-on training in the concepts of concurrent and distributed systems." (*IEEE Distributed Systems Online*, November 2004)

Review

Vijay K. Garg introduces concepts, models and algorithms suited to distributed computing and presents them in Java. This way, the reader can see that these algorithms can be effectively implemented (and that there is no "hidden mystery" within the model or the algorithms). The approach used by the author is very appealing as it demystifies concepts that could be considered "too theoretical" to be useful. This book successfully takes up the challenge to nicely merge theory and practice. It can consequently benefit both communities. I strongly recommend the book to people interested in the design and implementation of distributed systems.
--Michel Raynal, Professor, University of Rennes, France.

From the Back Cover

An in-depth introduction to concurrent and distributed computing with Java

Combining the two key types of Java programming, Concurrent and Distributed Computing in Java offers both professionals and students a comprehensive guide to fundamental concepts necessary for mastering Java programming.

The text is presented in two parts. The first deals with techniques for programming in shared-memory based systems and covers concepts in Java such as:

- Threads
- Synchronized methods
- Waits and notify
- Multi-threaded programming
- Algorithms for mutual exclusion, consensus, atomic objects, and wait-free data structures

The second half of the text deals with programming in a message-passing system, and covers:

- Resource allocation problems
- Logical clocks
- Global property detection
- Leader election
- Message ordering
- Agreement algorithms
- Checkpointing
- Message logging

Avoiding excessive mathematical notation while explaining important concepts with both rigor and clarity, this up-to-date text will prove a valuable resource for interested professionals and students alike.

Users Review

From reader reviews:

Katie Doll:

What do you consider book? It is just for students since they're still students or the item for all people in the world, exactly what the best subject for that? Simply you can be answered for that question above. Every person has diverse personality and hobby per other. Don't to be pushed someone or something that they don't would like do that. You must know how great in addition to important the book Concurrent and Distributed Computing in Java. All type of book is it possible to see on many sources. You can look for the internet resources or other social media.

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