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Distributed Computing Through Combinatorial Topology

By Maurice Herlihy, Dmitry Kozlov, Sergio Rajsbaum

Elsevier Science & Technology. Paperback. Book Condition: new. BRAND NEW, Distributed Computing Through Combinatorial Topology, Maurice Herlihy, Dmitry Kozlov, Sergio Rajsbaum, Distributed Computing Through Combinatorial Topology describes techniques for analyzing distributed algorithms based on award winning combinatorial topology research. The authors present a solid theoretical foundation relevant to many real systems reliant on parallelism with unpredictable delays, such as multicore microprocessors, wireless networks, distributed systems, and Internet protocols. Today, a new student or researcher must assemble a collection of scattered conference publications, which are typically terse and commonly use different notations and terminologies. This book provides a self-contained explanation of the mathematics to readers with computer science backgrounds, as well as explaining computer science concepts to readers with backgrounds in applied mathematics. The first section presents mathematical notions and models, including message passing and shared-memory systems, failures, and timing models. The next section presents core concepts in two chapters each: first, proving a simple result that lends itself to examples and pictures that will build up readers' intuition; then generalizing the concept to prove a more sophisticated result. The overall result weaves together and develops the basic concepts of the field, presenting them in a gradual and intuitively appealing way....



Reviews

The book is straightforward in read safer to recognize. This really is for anyone who statte there had not been a worthy of looking at. You may like just how the blogger create this publication.

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Extensive manual! Its this type of great read through. This can be for all who statte there was not a worth reading. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- Dr. Furman Becker V