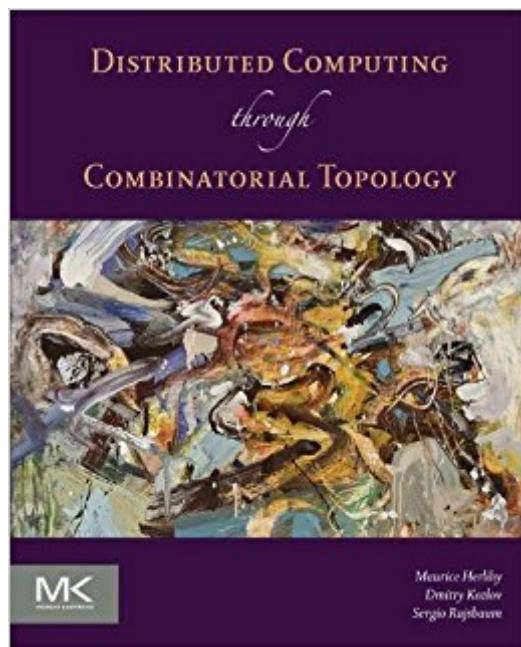


The book was found

Distributed Computing Through Combinatorial Topology



Synopsis

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. The book's final section discusses advanced topics typically found in a graduate-level course for those who wish to explore further. Named a 2013 Notable Computer Book for Computing Methodologies by Computing ReviewsGathers knowledge otherwise spread across research and conference papers using consistent notations and a standard approach to facilitate understandingPresents unique insights applicable to multiple computing fields, including multicore microprocessors, wireless networks, distributed systems, and Internet protocols Synthesizes and distills material into a simple, unified presentation with examples, illustrations, and exercises

Book Information

File Size: 21980 KB

Print Length: 293 pages

Publisher: Morgan Kaufmann; 1 edition (November 30, 2013)

Publication Date: November 30, 2013

Sold by: Digital Services LLC

Language: English

ASIN: B00H8RUCY2

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #411,199 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #16
in Kindle Store > Kindle eBooks > Nonfiction > Science > Mathematics > Geometry & Topology > Topology #26 in Kindle Store > Kindle eBooks > Nonfiction > Science > Mathematics > Pure Mathematics > Combinatorics #63 in Kindle Store > Kindle eBooks > Computers & Technology > Networking & Communications > Client-Server Systems

[Download to continue reading...](#)

Distributed Computing Through Combinatorial Topology A Combinatorial Introduction to Topology (Dover Books on Mathematics) The Stanford GraphBase: A Platform for Combinatorial Computing Simulated Annealing and Boltzmann Machines: A Stochastic Approach to Combinatorial Optimization and Neural Computing Programmed Inequality: How Britain Discarded Women Technologists and Lost Its Edge in Computing (History of Computing) Biomedical Statistics with Computing (Medical Computing Series) Crowdsourcing: Uber, Airbnb, Kickstarter, & the Distributed Economy Real-Time Systems: Design Principles for Distributed Embedded Applications (Real-Time Systems Series) Innovation and Disruption at the Gridâ™s Edge: How distributed energy resources are disrupting the utility business model Integration of Distributed Generation in the Power System Future of Utilities - Utilities of the Future: How Technological Innovations in Distributed Energy Resources Will Reshape the Electric Power Sector Intelligent Network Integration of Distributed Renewable Generation (Green Energy and Technology) Cowasee Basin: The Green Heart of South Carolina (Distributed for the Congaree Land Trust) The Tradition of Technology: Landmarks of Western Technology in the Collections of the Library of Congress (Distributed for the Library of Congress) Weather Radar Information and Distributed Hydrological Modelling (IAHS Proceedings & Reports) Security Engineering: A Guide to Building Dependable Distributed Systems Designing Distributed Systems: Patterns and Paradigms for Scalable, Reliable Services Combinatorial Lottery Systems (Wheels) with Guaranteed Wins Combinatorial Optimization (3 volume, A,B, & C) Combinatorial Optimization: Algorithms and Complexity (Dover Books on Computer Science)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

FAQ & Help