The Art of Multiprocessor Programming, Revised Reprint

Description:  Revised and updated with improvements conceived in parallel 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 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 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 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 materials to support and enhance the learning experience

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2. Mutual Exclusion
3. Concurrent Objects and Linearization
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5. The Relative Power of Synchronization Methods
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9. Linked Lists: the Role of Locking
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11. Concurrent Stacks and Elimination
12. Counting, Sorting and Distributed Coordination
13. Concurrent Hashing and Natural Parallelism
14. Skiplists and Balanced Search
15. Priority Queues
16. Futures, Scheduling and Work Distribution
17. Barriers
18. Transactional Memory
Appendices
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