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The Art of Multiprocessor Programming

Maurice Herlihy, Nir Shavit

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As the computer industry changes from single-processor to multiprocessor architectures, this revolution requires a fundamental change in how programs are written. To leverage the performance and power of multiprocessor programming, also known as multicore programming, you need to learn the new principles, algorithms, and tools presented in this book. It includes fully-developed Java examples detailing data structures, synchronization techniques, transactional memory, and more.

Prof. Maurice Herlihy, who coined the phrase "transactional memory," is on the faculty of Brown University. He is the recipient of the 2003 Dijkstra Prize in distributed computing. Prof. Nir Shavit is on the faculty of Tel-Aviv University and a member of the technical staff at Sun Microsystems Laboratories. In 2004 they shared the Gödel Prize, the highest award in theoretical computer science.

- *The* book on multicore programming, the new paradigm of computer science
- Written by the world's most revered experts in multiprocessor programming and performance
- Includes examples, models, exercises, PowerPoint slides, and sample Java programs

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