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This tutorial will present a set of algorithmic pattern\ for parallel programming. Patterns describe best known methods for solving recurring design problems. Algorithmic patterns in \ particular are the building blocks of algorithms. Using these patterns to develop parallel algorithms will lead to better struc\ured, more scalable, and more maintainable programs.

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Serial patterns are presented because structured parallel programming can be considered an extension of structured control flow in serial programming. We will emphasize deterministic patterns in order to support the development of systems that automatically avoid unsafe race conditions and deadlock.

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Structured Parallel Programming (ISBN 978-0-124-15993-8) by Michael McCool, Arch D. Robison, and James Reinders, is now available from Morgan Kaufmann. This book fills a need for learning and teaching parallel programming, using an approach based on structured patterns which should make the subject accessible to every software developer.

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## **UO Intel ® Parallel Computing Center - IPCC at UO**

In computing, algorithmic skeletons, or parallelism patterns, are a high-level parallel programming model for parallel and distributed computing. Algorithmic skeletons take advantage of common programming patterns to hide the complexity of parallel and distributed applications.

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