Parallel Computational Models and Algorithms

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Parallel Computational Models and Algorithms introduce parallel computational models based on which the parallel algorithms can be designed and analyzed, including performance models for tuning parallel programs. This book focuses on both the theoretical and practical aspects on the parallel computing, namely the main features of parallelism and the pragmatic techniques. Based on kernels (e.g., matrix multiplication), readers can understand and use the model by the example kernels.

This valuable reference provides a deeper introduction to modern parallel computational models. The author presents the models in a new classification, which give readers a whole new view to parallel computational models.

- Focuses on both the theoretical and practical aspects on the parallel computing, namely the main features of parallelism and the pragmatic techniques
- Provides a whole view to modern parallel computational models
- Presents the algorithms of each problem, and techniques of algorithm design

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