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Threads, OpenMP, and MPI are covered, along with code examples in Fortran, C, and Java. The principles of parallel computation are applied throughout as the authors cover traditional topics in a first course in scientific computing.

An introduction to parallel and vector scientific computing

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Ivanov L (2006) A modern course on parallel and distributed processing, Journal of Computing Sciences in Colleges, 21:6, (29-38), Online publication date: 1-Jun-2006. Sanderson A, Johnson C and Kirby R Display of Vector Fields Using a Reaction-Diffusion Model Proceedings of the conference on Visualization '04, (115-122)

Parallel Scientific Computing in C++ and MPI | Guide books

This book provides a seamless approach to numerical algorithms, modern programming techniques and parallel computing. These concepts and tools are usually taught serially across different courses and different textbooks, thus observing the connection between them. The necessity of integrating these subjects usually comes after such courses are concluded (e.g., during a first job or a thesis ...

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Parallel computing opens the door to solving and estimating richer models in Economics. From dynamic optimization problems with high dimensionality to structural estimation with complex data, readily-available and economical parallel computing allows researchers to tackle problems in Economics that were beyond the realm of possibility just a decade ago.

GitHub - davidzarruk/Parallel_Computing
ALGLIB is an open source numerical analysis library which may be used from C++, C#, FreePascal, Delphi, VBA.; ArrayFire is a high performance open source software library for parallel computing with an easy-to-use API.; IMSL Numerical Libraries are libraries of numerical analysis functionality implemented in standard programming languages like C, Java, C# .NET, Fortran, and Python.

List of numerical libraries - Wikipedia
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This simple-to-follow textbook/reference provides an invaluable guide to object-oriented C++ programming for scientific computing. Through a series of clear and concise discussions, the key features most useful to the novice programmer are explored, enabling the reader to quickly master the basics and build the confidence to investigate less well-used features when needed.