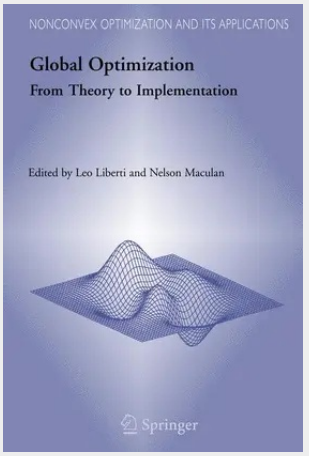
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From Theory to Implementation



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Most books about global optimization describe the theory of the algorithms, whereas a given implementation's quality never depends exclusively on the theoretical soundness of the algorithms that are implemented. The literature rarely discusses the tuning of algorithmic parameters, implementation tricks, software architectures, and the embedding of local solvers within global solvers. And yet, there are many good software implementations "out there" from which the entire community could learn something.

The scope of this book is moving a few steps toward the systematization of the path that goes from the invention to the implementation and testing of a global optimization algorithm. Some of the contributors to the book are famous and some are less well-known, but all are experts in the discipline of actually getting global optimization to work. Thus, the papers in this book address the following topics:

- Descriptions of new implementations of general-purpose or problem-specific global optimization algorithms

- New algorithms in global optimization (some with numerical results and a discussion of the implementation)

- Surveys discussing existing software packages.

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