Preface

This is the second issue of JOGO that contains selected papers presented at the Conference (organized by C. A. Floudas and P. M. Pardalos) on "State of the Art in Global Optimization: Computational Methods and Applications" held at Princeton University, April 28-30, 1995. The Conference presented current research in global optimization and related applications in science and engineering. All of the talks were invited and the papers refereed.

The papers of this issue cover a wide spectrum of approaches in global optimization. Androulakis *et al.*, present a branch and bound global optimization algorithm for general constrained problems. Goh *et al.*, investigate the biaffine matrix inequality problem and present a branch and bound global optimization algorithm for its solution. Biaffine matrix inequality problems appear in design of robust controllers. Migdalas provides a review of models, methods and discusses challenging problems for bilevel programming in traffic planning. Sergeyev and Markin propose an algorithm for global minimization of Lipschitz functions. They establish sufficient conditions of global convergence and present some numerical experiments with the proposed algorithm. Zheng and Zhuang present intergal global optimization algorithms and numerical results using continuous and discrete problems.

Again, we would like to take this opportunity to thank the authors, the anonymous referees, and Princeton University for their help and support of the Conference.

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