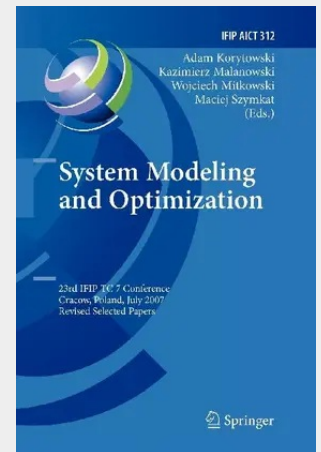


System Modeling and Optimization

23rd IFIP TC 7 Conference, Cracow, Poland, July 23-27, 2007, Revised Selected Papers

This book constitutes a collection of extended versions of papers presented at the 23rd IFIP TC7 Conference on System Modeling and Optimization, which was held in Cracow, Poland, on July 23–27, 2007. It contains 7 plenary and 22 contributed articles, the latter selected via a peer reviewing process. Most of the papers are concerned with optimization and optimal control. Some of them deal with practical issues, e. g., performance-based design for seismic risk reduction, or evolutionary optimization in structural engineering. Many contributions concern optimization of infinite-dimensional systems, ranging from a general overview of the variational analysis, through optimization and sensitivity analysis of PDE systems, to optimal control of neutral systems. A significant group of papers is devoted to shape analysis and optimization. Sufficient optimality conditions for ODE problems, and stochastic control methods applied to mathematical finance, are also investigated. The remaining papers are on mathematical programming, modeling, and information technology. The conference was the 23rd event in the series of such meetings biennially organized under the auspices of the Seventh Technical Committee "Systems Modeling and Optimization" of the International Federation for Information Processing (IFIP TC7).

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