## Modeling, Simulation and Optimization of Complex Processes

This proceedings volume contains a selection of papers presented at the Fourth International Conference on High Performance Scientific Computing held at the Hanoi Institute of Mathematics, Vietnamese Academy of Science and Technology (VAST), March 2-6, 2009. The conference was organized by the Hanoi Institute of Mathematics, the Interdisciplinary Center for Scientific Computing (IWR), Heidelberg, and Ho Chi Minh City University of Technology. The contributions cover the broad interdisciplinary spectrum of scientific computing and present recent advances in theory, development of methods, and applications in practice. Subjects covered are mathematical modeling, numerical simulation, methods for optimization and control, parallel computing, software development, applications of scientific computing in physics, mechanics, biology and medicine, engineering, hydrology problems, transport, communication networks, production scheduling, industrial and commercial problems.



springer.com

3ock · Phu · Rannache Schlöder (Eds



of Complex Processes

Modeling, Simulation and Optimization



Hans Georg Bock Hoang Xuan Phu Rolf Rannacher Johannes P. Schlöder

**Editors** 

Modeling, Simulation and Optimization of Complex Processes

