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# TUTORIALS ON EMERGING METHODOLOGIES AND APPLICATIONS IN OPERATIONS RESEARCH

Presented at  
**INFORMS 2004,**  
Denver, CO

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edited by  
**Harvey J. Greenberg**

# Tutorials On Emerging Methodologies And Applications In Operations Research

**Bernard W. Taylor**



## **Tutorials On Emerging Methodologies And Applications In Operations Research:**

Tutorials on Emerging Methodologies and Applications in Operations Research Harvey J. Greenberg, 2006-06-16 This volume reflects the theme of the INFORMS 2004 Meeting in Denver Back to OR Roots Emerging as a quantitative approach to problem solving in World War II our founders were physicists mathematicians and engineers who quickly found peace time uses It is fair to say that Operations Research OR was born in the same incubator as computer science and it has spawned many new disciplines such as systems engineering health care management and transportation science Although people from many disciplines routinely use OR methods many scientific researchers engineers and others do not understand basic OR tools and how they can help them Disciplines ranging from finance to bioengineering are the beneficiaries of what we do we take an interdisciplinary approach to problem solving Our strengths are modeling analysis and algorithm design We provide a quantitative foundation for a broad spectrum of problems from economics to medicine from environmental control to sports from e commerce to computational ometry We are both producers and consumers because the mainstream of OR is in the interfaces As part of this effort to recognize and extend OR roots in future probl solving we organized a set of tutorials designed for people who heard of the topic and want to decide whether to learn it The 90 minutes was spent addre ing the questions What is this about in a nutshell Why is it important Where can I learn more In total we had 14 tutorials and eight of them are published here Harvey J. Greenberg Allen Holder, 2020-11-20 This volume chronicles the high impact research career of Harvey Greenberg 1940 2018 and in particular it reviews historical contributions presents current research projects and suggests future pursuits This volume addresses several of his most distinguished hallmarks including model analysis model generation infeasibility diagnosis sensitivity analysis parametric programming energy modeling and computational biology There is also an overview chapter on the emergence of computational OR and in particular how literature venues have changed the course of OR research He developed Computer Assisted Analysis in the 1970s and 80s creating an artificially intelligent environment for analyzing mathematical programming models and their results This earned him the first INFORMS Computing Society ICS Prize for research excellence in the interfaces between operations research and computer science in 1986 notably for his software system ANALYZE In 1993 he wrote the first book in the Springer OR CS Series entitled A Computer Assisted Analysis System for Mathematical Programming Models and Solutions A User s Guide for ANALYZE He applied OR methods to CS problems ranging from using queuing theory for optimal list structure design to using integer programming for bioinformatic database search He also applied CS to OR problems ranging from super sparse information structures to the use of compiler design in ANALYZE This book can serve as a guide to new researchers and will report the historical trajectory of OR as it solves current problems and forecasts future applications through the accomplishments of Harvey Greenberg **American Book Publishing Record** ,2005 *Tutorials in Operations Research* Institute for Operations Research and the Management Sciences. National Meeting, 2008 **Tutorials**

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