Decision and Prediction Analysis Powered With Operations Research

Part of the Advances in Business Information Systems and Analytics Book Series
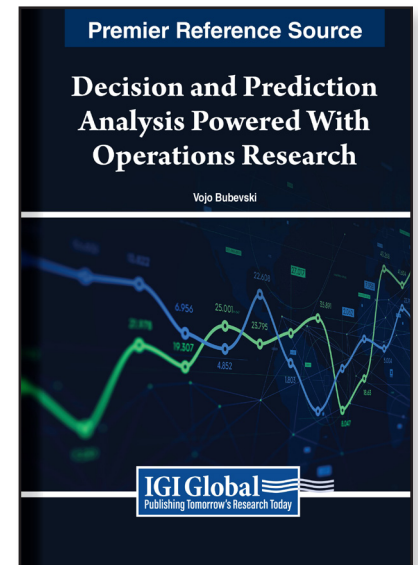
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Description:

Organizations today face complex decisions and uncertainties that can have a profound impact on their financial stability and strategic direction. Traditional decision-making methods often fall short when it comes to addressing multifaceted issues like financing, product manufacturing, and facility location. These challenges demand a robust framework that quantifies factors, assesses risks, and provides optimal solutions. Without advanced tools and techniques, businesses are at risk of making uninformed decisions that could lead to significant financial losses and missed opportunities. The urgency to equip yourself with these tools is clear.

Decision and Prediction Analysis Powered With Operations Research offers a comprehensive solution to these challenges. This book integrates operations research techniques to reframe and solve complex business problems. It provides a detailed exploration of decision analysis tools, such as influence diagrams and decision trees, which help visualize and assess various decision scenarios. By applying these tools, organizations can better understand uncertainties, evaluate risks, and make decisions that maximize expected utility and achieve strategic objectives.

Targeting academic scholars, researchers, and business professionals, this book bridges the gap between theory and practice. It includes practical case studies from diverse industries, demonstrating the application of decision analysis in real-world contexts. Whether it's predicting loan applicants' timely payments or forecasting stock market directions, readers will gain actionable insights and methodologies to enhance their decision-making processes. This resource is essential for anyone looking to improve risk assessment and management, making informed decisions that drive organizational success.

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Topics Covered:

- Bidding Strategy
- Business Forecasting
- Churn Prediction
- Contract Bidding
- Decision Analysis
- House Price Prediction
- Loan Payment Prediction
- Medicine Development
- Neural Networks
- Oil Drilling
- Operations Research
- Pharmaceutical Decision Analysis
- Purchasing Strategy
- Risk Assessment
- Stock Market Prediction

Subject: Business & Management

Classification: Authored - Standard Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners