

Recent Management Science operations research projects

- Snowshoe Ski Area, West Virginia, Viewed as a Queuing System
- Optimizing the Assignments of Project Inspectors to Construction Projects for The Ohio Department of Transportation, District 7
- Shift Scheduling for a Retail Store
- Manufacturing Location Optimization Utilizing Linear Programming Methods
- Leasing a Car vs. Buying a Car
- Replacement of a Heat Pump With a Natural Gas Heating System
- Minimization of Labor Cost Using Work Scheduling Model
- Improving Maintenance for Control Data (Thailand)
- Baseball Stadium Tour
- Reservoir Tube Cell Redesign
- Improving the Cocomo Software Cost Estimation Model
- Stock Portfolio Allocation
- Least Cost Network Topology
- Software Factory
- Analysis of Failure Data for the Avionics Systems on the AC130U Gunship
- Inventory Scheduling Project
- Strategic Resource Allocation Model
- Scheduling Optimization of Multiple Air Bag Models
- Optimization of Material Flow in a Manufacturing Facility Using the Assignment Algorithm
- Investigation into Whether or Not It Is Cost Effective to Install a Second Water Meter to Track Outside Usage and thus Reduce Water and Sewage Expenditure
- Optimization of Water Meter Reading for the Village of Enon, Ohio, Using Integer Programming
- The Impact of Department of Defense Downsizing on UDRI
- Engine Flow Through a Depot
- Forecasting Manpower Requirements and Optimizing Staffing Levels
- An Analysis in Material Handling for CF Roll Wrappers
- Residential Natural Gas Prediction
- Spares Determination Assessment for the Global Hawk High Altitude Endurance Unmanned Aerial Vehicle
- Applying Operations Research Methods to Government Science and Technology Planning
- Delphi Chassis Engine Mount Laboratory: A Model for Lab Development
- Use of a Minisum Model Determining the Location of a Central Distribution Site that Minimizes the Weighted Sum of the Delivery Distances to Any Automotive Assembly Plant in North America Given Their Existing Locations
- Optimization of a Dentist's Schedule
- Software Problem Report Processing Simulation
- An Economical Automobile Replacement Strategy
- Implementation of a Regression Based Model to Forecast Daily Peak Electric Demand
- LOGDIS 3.0 Resource Requirements Analysis
- Assembly Line Balancing
- An Evaluation of Federal Employee Retirement Options
- An Optimally Located Church Relative to Its Attendees
- Inventory Replenishment for May Kay Consultants
- Distributed Processing for a Virtual Reality System
- A Portfolio & Stock Evaluation Model Case Study Report
- An Optimized Deterministic Inventory Control Model
- Recommendation for a Structured Test Plan for the Design and Manufacture of Low Cost Composites Program Manufacturing Affordability Demonstrator Component
- Determine Economical ReOrdering Quantities Using the Silver-Meal Heuristic

- Simulation of Network Schedule for Residential Construction
- Component Delivery Routing at Delphi Chassis Systems
- A Work Flow Study of the Design Room at Delphi Chassis Systems
- Selecting Stocks for an Investment Portfolio
- Developing Replacement Policies For Realtime Host Computer Systems for USAF Simulator Acquisition Programs
- Study of Job Sequencing to Minimize Idle Time for XACT Tool
- Newspaper Gripper Product EOQ
- An Analysis of Responses to Unethical Behavior in the Workplace
- Cost Effectiveness of Drive Through Windows at Fast Food Restaurants
- Optimal Inventory Lot Sizing Using a Personal Computer
- The Optimal Location of a Church Relative to its Attendees
- Forecasting the Dayton Korean United Methodist Church Budget
- A Comparison of One Piece Flow versus Unrestricted Flow in a Compressor Assembly Line
- Montgomery Country Jail Overcrowding
- Decision Analysis of Health Insurance Alternatives
- Portfolio Selection
- Optimization of a Water Distribution System for the Southern Montgomery County Water Treatment Plant at Cranes Run
- A Case Study in Portfolio Development
- Statistical Modeling of Sustained Automotive Brake Noise
- Management Science Proposal on Housing Conversion of Electric Heat Pumps to Natural Gas Furnaces
- Fabrica de Velas "La Devocion" (a case study in forecasting and dynamic lot sizing)
- Downtime Analysis of a Contact Lens Production Line Utilizing Simulation
- A Multiple Regression Analysis of Facility Construction Cost
- Audit Staff Schedule
- Reliability and Maintainability Comparison for the Upgraded Compass Call Acquisition Subsystem
- Optimization of Water ReUse Distribution System at AF Plant 6, Marietta, Georgia
- A Simulation Analysis for Line Balancing and Benchmarking of the Kittyhawk Pharmacy at WPAFB
- F118-GE-101 Engine Depot Turnaround Time Requirements
- F117 Stealth Fighter Requirements Review Process
- T1A Unscheduled Maintenance Drivers
- T6A Ejection Seat Parachute Repacking Process
- Large Pump Assembly Simulation
- Application of Queuing Theory Simulation to F-22 Production Flight Operations
- C17 and C-5 Reliability Trade-off Analysis
- An Optimum Supply Chain Network Model of a Natural Gas Company, Thailand
- Global Hawk Communications Utilization Simulation
- Progressive Cavity Pump Modification
- Model Mix for Commercial Vehicle Production
- Cost Analysis on Aircraft Galley "Quick Disconnect" Plumbing Connectors
- MCM Assembly, Optimizing the Bonding Process
- A Simulated Supply Chain Inventory Management System
- Economic Batch Size from Concept to Production
- Air Force Recruiting and Retention
- Operations Research on Cocoa Distribution
- Can You Afford to Raise Your Children? An Operations Research Investigation
- An Optimization of a Messier Marathon

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