

# ORiON Keywords

## A

Accounting  
Advertising  
Agriculture  
Air transport  
Airlines  
Allocation problems  
Ambulance services  
Analysis of algorithms  
Applied probability  
Architecture  
ARIMA processes  
Artificial intelligence  
Assembly lines  
Asset pricing  
Assignment problems  
Auctions/bidding  
Auditing  
Automation

## B

Banking  
Bargaining  
Bayesian networks  
Biology  
Branch and bound  
Branch and cut  
Branch and price  
Brokerage-trading  
Business process reengineering

## C

Capacity expansion  
Capital budgeting  
Clustering  
Coal industry  
Cognitive mapping  
Combinatorial analysis  
Combinatorial optimization  
Complexity theory  
Computational complexity  
Computing science  
Communications  
Conflict analysis  
Conic programming  
Constraints satisfaction  
Construction industry  
Control theory  
Convex programming  
Corporate planning  
Cost benefit analysis  
Costing  
CPM  
Crime prevention  
Cutting problems  
Cutting stock  
Cybernetics

## **D**

Data bases  
Data envelopment analysis  
Data mining  
Data structures  
Decision support systems  
Decision analysis  
Defence industry  
Developing countries  
Distributed decision making  
Distribution  
Dynamic programming

## **E**

E-commerce  
Ecology  
Econometrics  
Economics  
Economies of scale  
Education  
Elections  
Electricity industry  
Energy sector  
Engineering  
Entropy  
Enumeration  
Environment  
EOQ  
Epidemiology  
Equipment  
EURO  
Evolutionary computations  
Experimental design  
Expert systems

## **F**

Facility design  
Facility layout  
Facility planning  
Factor analysis  
Finance  
Financial institutions  
Financial markets  
Fire services  
Fixed point methods  
Flexible manufacturing systems  
Flow shop  
Forecasting  
Forestry  
Fractional programming  
Fuzzy sets

## **G**

Gambling  
Game theory  
Gaming  
Gas industry  
GERT  
Genetic algorithms  
Geometric programming

Global optimization  
Goal programming  
Government  
Gradient methods  
Graph theory  
Group decisions and negotiations

## **H**

Health services  
Heuristics  
History of OR  
Hospitals  
Hotel industry  
Human resources

## **I**

IFORS  
Industrial relations  
Information systems  
Information theory  
INFORMS  
Insurance  
Integer programming  
Interior point methods  
Inventory theory  
Investment analysis

## **J**

Job shop

## **K**

Knowledge-based systems

## **L**

Lanchester theory  
Land development  
Large scale optimization  
Law enforcement  
Learning  
Leisure  
Libraries  
Linear programming  
Location problems  
Logistics  
Longest paths  
Lot sizing  
Lumbering industry

## **M**

Maintenance  
Management  
Manufacturing  
Manpower planning  
Marketing  
Markov processes  
Materials handling  
Medicine  
Metaheuristics  
Mining industry

Military  
Modelling systems and languages  
Multi-agent systems  
Multiple criteria decision analysis  
Multiple objective programming  
Multivariate statistics

## **N**

Natural resources  
Network flows  
Networks  
Neural networks  
Nonlinear programming  
Nonparametric statistics

## **O**

Oil industry  
Optimal control  
Optimization  
Open shop  
Operating budgets  
Organization theory  
Organizational studies  
ORSSA

## **P**

Packing problems  
Parallel computing  
Parametric programming  
Pattern recognition  
Penalty methods  
Performance evaluation  
Perishable items  
PERT  
Petri nets  
Petroleum industry  
Pharmaceuticals  
Philosophy of OR  
Planning  
Police services  
Politics  
Pollution  
Polyhedra  
Population dynamics  
Portfolio optimization  
Postal services  
Practice of OR  
Pricing  
Probability  
Problem structuring  
Problem structuring methods  
Production  
Production lines  
Productivity and competitiveness  
Project management  
Project scheduling  
Public expenditure  
Purchasing

## **Q**

Quadratic programming  
Quality control  
Quality management  
Queueing theory

## **R**

Rail transport  
Random walks  
Real estate  
Recreation  
Regenerative processes  
Regional studies  
Regression  
Reliability  
Renewal processes  
Repair  
Replacement  
Research and development  
Resource development  
Retailing  
Revenue management  
Risk analysis  
Risk management  
Road transport  
Robustness and sensitivity analysis  
Rough sets  
Routing problems

## **S**

Scenarios  
Scheduling  
Sea transport  
Search theory  
Semi-infinite programming  
Sequencing  
Shipping industry  
Shortest paths  
Simulated annealing  
Simulation  
Societal problems  
Software  
Sports  
Statistical inference  
Statistical sampling  
Stochastic processes  
Stochastic programming  
Strategic planning  
Supply chain management  
Systems dynamics

## **T**

Tabu search  
Taxation  
Telecommunications  
Textile industry  
Time series  
Timetabling  
Trade unions  
Traffic flow

Training  
Transportation  
Travelling salesman  
Tree algorithms

## **U**

Uncertainty modelling  
Urban studies  
Utility theory

## **V**

Vehicle routing  
Visual interactive modelling  
Voting systems

## **W**

Waste disposal  
War games  
Warfare  
Water resources  
Weather systems