

Lecture Notes in Economics and Mathematical Systems

Managing Editors: M. Beckmann and H. P. Künzi

Operations Research

197

Integer Programming
and Related Areas

A Classified Bibliography
1978–1981

Edited by R. von Randow



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Compiled at the Institut für Ökonometrie
und Operations Research, University of Bonn

Edited by R. von Randow



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Integer programming

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P R E F A C E

The field of integer programming continues to be one of the most vital areas of mathematical optimization, and the flood of publications tends to become even more difficult to survey than in the past. A classified bibliography of the literature thus seems even more necessary today than it did when I started such a project in 1970 for collecting and classifying all available publications on integer programming. This pioneering work was performed by Claus Kastning during the years 1970 - 1975 in the Institut für Ökonometrie und Operations Research, Bonn, and culminated in the publication of the first volume of the classified bibliography entitled "Integer Programming and Related Areas", Lecture Notes in Economics and Mathematical Systems, Volume 128.

Work on the project was continued by Dirk Hausmann and Reinhardt Euler, and three years later the second volume was published as Lecture Notes in Economics and Mathematical Systems, Volume 160.

The present book constitutes the third volume of the bibliography and covers the period from early in 1978 to mid 1981. It contains 3924 new publications by 3075 authors and its compilation was begun by Reinhardt Euler and continued by Rabe von Randow. Its form is practically identical to that of the first two volumes, some slight changes having been made in the subject list.

Finally I would again like to thank the programmers of the Institute for their extensive programming effort.

Bonn, November 1981

Bernhard Korte

INTRODUCTORY REMARKS

This volume continues the series "Integer Programming and Related Areas: A Classified Bibliography", published as Lecture Notes in Economics and Mathematical Systems Nos. 128 and 160. It contains the publications appearing in the period from early in 1978 to mid 1981, as well as any previous publications which were not included in the first or second volume.

The following topics are covered:

- theory and methods of general integer programming ;
- combinatorial and graph theoretical optimization problems related to integer programming ;
- applications of integer programming .

A detailed list of the subjects included is given at the end of this introduction. Textbooks and proceedings volumes have been included only if they deal principally with integer programming.

PART 1 : This part comprises the alphabetical bibliography which lists all publications alphabetically by the first author and chronologically for each author, and includes the full bibliographical data plus a reference code which reflects the author's name and the year of publication. The purpose of the code is to enable the user to identify publications referenced in Part 2 and Part 3.

Bibliographical data are given as follows:

a) Textbook :

ref. code

author(s)

title. Where published: publisher(s), no. of pages. (Year).

b) Article in a journal :

ref. code	author(s)
title. Journal, vol. no., pages. (Year).	

c) Article in a proceedings volume :

ref. code	author(s)
title. IN: Editor(s): title of the proceedings volume, pages. Where published: publisher(s). (Year).	

d) Paper :

ref. code	author(s)
title. Classification of the paper. Where published: publisher, no. of pages. (Year).	

Publications in English, French or German appear under their original title. Titles of publications written in other languages have been translated into English and the original language indicated in brackets.

PART 2 : In this part the publications have been classified according to 51 subjects; within each subject the ordering is again alphabetical by the first author.

The subject list following these remarks contains 51 main subject headings, and for 87 further topics the corresponding subject headings have been indicated. The publications appear under all relevant headings; the references are restricted to name(s) of author(s), title and reference code, with which the full bibliographical data can be retrieved from Part 1.

PART 3 : The purpose of this part is to enable the user to locate publications for which only a coauthor's name is known. It consists of an alphabetical catalogue of all the authors appearing in Part 1, and lists for each author the reference codes of all his publications.

SUBJECT LIST

- acyclic subgraph problem → graph theoretic results
- ADJACENCY ON INTEGER POLYHEDRA
- aggregation → diophantine systems and aggregation
- air crew scheduling → covering ; scheduling
- ALGEBRAIC METHODS AND ALGEBRAIZATION OF PROBLEMS
- algorithm codes → computer codes
- allocation → location and allocation
- antiblocking → blocking, antiblocking, integer rounding
- APPLICATIONS OF INTEGER PROGRAMMING
- approximate algorithms → heuristics
- assembly line balancing → scheduling
- ASSIGNMENT
- backtracking methods → branch and bound
- balanced matrices → unimodular, balanced, and perfect matrices
- Benders' method → decomposition ; mixed integer programming
- bibliographies → surveys, bibliographies
- bin packing → packing
- bivalent programming → zero-one programming
- BLOCKING, ANTIBLOCKING, INTEGER ROUNDING
- BOOLEAN METHODS
- BOTTLENECK PROBLEMS
- BRANCH AND BOUND
- branchings → graph theoretic results
- chance constrained methods → stochastic integer programming

Chinese postman	→	routing
clustering	→	partitioning ; combinatorial optimization problems

COLORING PROBLEMS

COMBINATORIAL OPTIMIZATION PROBLEMS (UNLESS SPECIFIED ELSEWHERE)

COMPLEXITY

COMPUTATIONAL RESULTS

COMPUTER CODES

convex integer programming	→	nonlinear integer programming
corner polyhedra	→	group theoretic approach ; integer polyhedra

COVERING

CPM	→	network flows
-----	---	---------------

crew scheduling	→	covering ; scheduling
-----------------	---	-----------------------

CUTTING PLANES

cutting stock	→	combinatorial optimization problems
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DECOMPOSITION

DIOPHANTINE SYSTEMS AND AGGREGATION

DISJUNCTIVE PROGRAMMING

DUALITY IN INTEGER PROGRAMMING

DYNAMIC PROGRAMMING

edge covering	→	covering
enumeration methods	→	branch and bound

FACETS OF INTEGER POLYHEDRA

FIXED CHARGE

flow shop scheduling	→	scheduling
flows in networks	→	network flows

fractional integer programming	→	nonlinear integer programming
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generalized networks	→	network flows
goal programming	→	nonlinear integer programming
GRAPH THEORETIC RESULTS (UNLESS SPECIFIED ELSEWHERE)		
greedy algorithms	→	matroids and independence systems ; heuristics
GROUP THEORETIC APPROACH		
Hamiltonian cycle	→	graph theoretic results ; travelling salesman
Hermite normal form	→	diophantine systems and aggregation ; group theoretic approach
HEURISTICS, APPROXIMATE ALGORITHMS		
Hitchcock Koopmans problem	→	transportation
Hungarian method	→	assignment
implicit enumeration	→	branch and bound
independence systems	→	matroids and independence systems
integer linear programming over cones (ILPC)	→	group theoretic approach
INTEGER POLYHEDRA (UNLESS SPECIFIED ELSEWHERE)		
INTEGER PROGRAMMING (GENERAL)		
integer rounding	→	blocking, antiblocking, integer rounding
job shop scheduling	→	scheduling
KNAPSACK		
Lagrangian relaxation	→	relaxations
large scale programming	→	decomposition
layout problems	→	location and allocation ; combinatorial optimization problems
line balancing	→	scheduling
LOCATION AND ALLOCATION		
longest paths	→	shortest paths

lot sizing	→	scheduling
machine scheduling	→	scheduling
marriage problem	→	assignment

MATCHING

MATROIDS AND INDEPENDENCE SYSTEMS

maximal flow problem	→	network flows
minimal cut problem	→	network flows

MIXED INTEGER PROGRAMMING

modulo optimization problems	→	group theoretic approach
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MPM	→	network flows
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MULTICOMMODITY FLOW PROBLEMS

multiple objectives	→	nonlinear integer programming
multiterminal network flows	→	network flows
network design	→	combinatorial optimization problems

NETWORK FLOWS

node covering	→	covering
node packing	→	packing

NONLINEAR INTEGER PROGRAMMING

orderings	→	combinatorial optimization problems
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PACKING

PARAMETRIC INTEGER PROGRAMMING

PARTITIONING

penalty methods	→	branch and bound
percolation	→	network flows ; stochastic integer programming
perfect graphs	→	unimodular, balanced, and perfect matrices

perfect matrices	→	unimodular, balanced, and perfect matrices
PERT	→	network flows
plant layout	→	location and allocation ; combinatorial optimization problems
p-median problem	→	location and allocation
political districting	→	partitioning
probabilistic algorithms	→	stochastic integer programming
production planning	→	applications of integer programming
programming and storing techniques	→	computer codes
quadratic integer programming	→	nonlinear integer programming
reduction of inequalities	→	diophantine systems and aggregation
reduction of integer matrices	→	diophantine systems and aggregation
RELAXATIONS		
ROUTING (NON-TSP)		
SCHEDULING		
sensitivity analysis	→	parametric integer programming
separable integer programming	→	nonlinear integer programming
sequencing	→	scheduling
SHORTEST PATHS		
Smith normal form	→	diophantine systems and aggregation ; group theoretic approach
sorting	→	partitioning
SPANNING TREES		
stable sets	→	graph theoretic results
Steiner trees	→	spanning trees
STOCHASTIC INTEGER PROGRAMMING, PROBABILISTIC ALGORITHMS		

- subgradient optimization → relaxations
- submodular functions → matroids and independence systems

SURVEYS, BIBLIOGRAPHIES

TEXTBOOKS

TIME-TABLING

- totally unimodular matrices → unimodular, balanced, and perfect matrices
- traffic assignment → applications of integer programming

TRANSPORTATION

- transshipment → transportation

TRAVELLING SALESMAN

UNIMODULAR, BALANCED, AND PERFECT MATRICES

- vector optimization → nonlinear integer programming
- vertex covering → covering
- vertex packing → packing

ZERO-ONE PROGRAMMING (GENERAL)

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