

ISOLDE I: Banff, 1978

Monday a.m.

CHAIRS: Jonathan Halpern
Michael Goodchild

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| Louis Hakimi, USA | Recent developments in location theory. |
| Anthony Lea, USA | A view of research frontiers in normative location models. |
| Jakob Krarup,
Peter Pruzan,
DENMARK | Locational decisions: problems and optimal problem formulation. published as: Krarup, J.; Pruzan, P. "Problems of optimal problem formulation," in Krarup, J.; Pruzan, P. "Ingredients of Locational Analysis," in Mirchandani, P.B.; Francis, R.L., Eds. <i>Discrete Location Theory</i> Wiley-Interscience, New York: 1990, 1-54. |
| Robert Love,
Henrik Juel, USA | Properties and solution methods for large location-allocation problems. published as: Love, R.; Juel, H. "Properties and solution methods for large location-allocation problems," <i>Journal of the Operational Research Society</i> 33: 1982, 443-452. |
| Edward Hillsman, USA | A system for location-allocation analysis. |

Monday, p.m.

CHAIR: Michael Florian

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| Nicos Christofides, UK | The quadratic assignment problem -- some recent results. published as: Christofides, N.; Mingozi, A.; Toth, P. "Contributions to the quadratic assignment problem," <i>European Journal of Operational Research</i> 4: 1980, 243-247. |
| Mordecai Avriel,
ISRAEL | A geometric programming approach to the solution of location problems. |
| Marc Los, CAN | Comparison of several heuristic algorithms to solve quadratic assignment problems of the Koopmans-Beckman type. |
| Lewis Hopkins, USA,
Marc Los, CAN | Land use plan design with fixed interactions and central facility interactions: a comparison of methods. |
| Richard Wendell,
Elmor Peterson, USA | Optimal location by geometric programming. not published. |
| James Morris, USA | Analysis of a generalized empirical distance function for use in location problems. |

Tuesday, a.m.

CHAIR: Geoffrey Berlin

- Luc Chalmet, BEL.,
Richard Francis, USA,
Jim Lawrence, USA Finding efficient designs. published as: Chalmet, L.C.; Francis, R.L.; Kolen, A. "Finding efficient solutions for rectilinear distance location problems efficiently," *European Journal of Operational Research* 6: 1981, 117-124.
- Terry Ross, USA,
Richard Soland, CAN A multicriteria approach to the location of public facilities. Ross, Terry G.; Soland, Richard M. "A multicriteria approach to the location of public facilities," *European Journal of Operational Research* 4: 1980, 307-321
- Timothy Lowe, USA Efficient solutions in multi-objective tree network location problems. *Transportation Science*: 1978,
- Gerard Rushton,
Avijit Ghosh,
Sara McLafferty, USA A location-allocation model to optimize user's satisfaction. "Equilibrium Locations for Public Services," *Geographical Analysis* 13: 1981, 196-202
- Jonathan Halpern, USA Some observations on the cent-dian of a graph.

Tuesday, p.m.

CHAIR: Ted. Eschenbach

- Don Erlenkotter, USA A comparative study of approaches to dynamic location problems. published as: Erlenkotter, D. "A comparative study of approaches to dynamic location problems," *European Journal of Operational Research* 6: 1981, 133-143.
- Kenneth Rosing, NETH Application of location-allocation modelling to economic studies of offshore oil development.
- Jeffrey Osleeb,
Robert Cromley, USA Tradeoffs between production and transportation costs in multi-plant location problem: algorithm and analysis. *Not published.*
- James Jucker,
Robert Carlson, USA Determining plant capacity and warehouse capacities in several locations under stochastic demand.
- Micheal Goodchild,
USA Geographical uncertainties in location-allocation.

Wednesday, a.m.

CHAIR: Larry Stanfel

- Norman Katz,
Leon Cooper, USA Optimal location on a sphere.
- Brian Boffey, UK On finding p-medians. published as: Boffey, T.B.; Karkazis, J. "P-medians and multimedian." *Journal of the Operational Research Society* 35: 1984, 57-84.
- Kenneth Rosing,
NETH,
Charles ReVelle, USA A method for optimal solutions to large p-median problems. published as: Rosing, K.; ReVelle, C.; Rosing-Vogelaar, ???. "The p-median problem and its linear programming relaxation: an approach to large problems," *European Journal of Operational Research* vol? 1979, pages??
- Richard Church,
Thomas Bell, USA On determining facility configurations which maximize benefits.
- Subhash Narula,
Ugonnaya Ogbu, USA Hierarchical facilities location-allocation problem. published as: Narula, S.C.; Ugonnaya, O. "An hierarchical location-allocation problem." *Omega* 7: 1979, 137-143.
- John Hodgson, CAN The location of public facilities with respect to the journey to work. published as: Hodgson, M.J, "The location of public facilities intermediate to the journey to work," *European Journal of Operational Research* 6: 1981, 199-204.

Wednesday p.m.

CHAIR: Douglas Shier

- Gabriel Handler, IS. Complexity and efficiency in minimax network location.
- Pitu Mirchandini, USA Locational decisions on stochastic networks. published as: Mirchandini, P. "Locational decisions on stochastic networks," *Geographical Analysis* 12: 1980, 172-183
- Lawrence Ostresh,
USA Efficient, possibly exact, algorithms for solving the location-allocation problem.
- Roberto Galvao,
BRAZIL A dual bounded algorithm for the p-median problem. published as: Galvao, R. "A graph theoretical bound for the p-median problem," *European Journal of Operational Research* 6: 1981, 162-165.
- Stephen Brady,
Richard Rosenthal,
USA Computer graphical solutions of constrained minimax location problems.

Thursday a.m.

CHAIR: Fred Lispett

- Richard Larson, USA Structural systems models for locational decisions: an example using the hypercube queuing model. published as: Larson, R. "Structural systems models for locational decisions: an example using the hypercube queuing model," Haley, K.B., Ed. *Proceedings of the Eighth IFORS International Conference on Operations Research* North-Holland Publishing Company: Amsterdam, Holland, 1979.
- David Schilling,
Jack Elzinga,
Charles ReVelle,
Jared Cohon,
Richard Church, USA The FLEET model of the Baltimore fire protection system. The TEAM/FLEET models for simultaneous facility ?? equipment sighting," *Transportation Science* 13: May, 1979, 163-175
- R. Minciardi,
Pier Puliafito,
Riccardo Zoppi,
ITALY Enumerative algorithms for clustering and locating social facilities.
- Lars Lundqvist,
Goran Tegner,
SWEDEN Urban planning of locational structures with due regard to user behaviour.
- Lueder Bach, WEST
GERMANY Location-allocation models in urban and regional infrastructures.

Thursday p.m.

CHAIR: Gilbert Laporte

- Alan Mercer, UK The impact of marketing on branch location.
- Søren-Kruse Jacobsen,
Oli Madsen,
DENMARK On the location of transfer-points in a two-level newspaper delivery system -- a case study. published as: Jacobsen, S.-K.; Madsen, O. "A comparative study of heuristics for a two-level routing-location problem." *EJOR* 5: 1980, 378-387.
- Arthur Geoffrion,
Glenn Graves,
Shao-Ju Lee, USA Distribution systems planning: a status report. Geoffrion, A.M.; Graves, G.; Lee, S.J. "Strategic Distribution System Planning: A status Report," in *Studies in Operations Management*, A.?? (Ed), North Holland/American Elsevier (1978). See also: Geoffrion, A.M.; Graves, G.W.; Lee, S.J. "A Management Support System for Distribution Planning," *INFOR* 20:4, 287-314 (Nov. 1982); and Geoffrion, A.M.; Powers, R.F. "Twenty years of strategic distribution system design: an evolutionary perspective," *INTERFACES* 25:5, 1995, 105-127.

Chandana Wirasinghe, Location of rail stations for many to one travel demand.
Vanolin Hurdle, CAN

J.C. Picard, BRAZIL On the one-dimensional space allocation problem.
Maurice Queyranne,
CAN

other papers:

G. Laporte did not present, but did publish a paper in the special issue of EJOR that followed:
Laporte, G; Norbert, Y. "An exact algorithm for minimizing routing and operating costs in depot location." *EJOR* 6, 224-226, 1981.

J. Krarup, P. Pruzan "UNILOC -- a *uni*-location model," *Regional Science and Urban Economics* 12: 1982, 547-578.