ISOLDE V: FULLERTON, CALIFORNIA
June 7-12, 1990

Thursday a.m., session 1: Stochastic location problems I
CHAIR: F. Louveaux

J.J. Van Dijk	Heuristics and statistics in NP-complete problems.
D. Simchi-Levi	Hierarchical planning for probabilistic distribution systems. published as: Simchi-Levi, D. "Hierarchical design for probabilistic distribution systems in euclidean spaces," *Management Science* 38: 1992: 198-211.

Thursday a.m., session 2: Stochastic location problems II
CHAIR: F. Louveaux

J.B.G. Frenk, M. Labbé, S. Zhang	The stochastic k-priority queue location problem and related results. not published, except in PhD dissertation of S. Zhang: "Stochastic queue location problems," Tinbergen Institute Series 14, Thesis publisher, Amsterdam, 1991.
G. Laporte, F. Louveaux, L. Vanhmme	An exact branch and bound procedure for stochastic location problems. published as: Laporte, G.; Louveaux, F.; Vanhamme, L. "Exact solution of a stochastic location problem by an integer ℓ-shaped algorithm," *Transportation Science* 28: 1994, 95-103.

Thursday p.m., session 1: Applications I
CHAIR: T.L. Friesz

S. Singh	An optimisation towards spatio-functional decentralisation and area development. published as: Singh, S. "An optimisation towards spatio-functional decentralisation and area development," *Indian journal of Regional Science* XXIV(2): 1992, 53-63.
W. Domschke, S. Voss	Simultaneous location and production planning with side-constraints. published as: Domschke, W.; Voss, S. "Ansätze zur strategischen Standort - und Produktionsplanung - ein Anwendungsbeispiel," in K.-P. Kistner, J.H. Ahrens, G. Feichtinger, J. Minnemann and L. Streitferdt (eds.) *Operations Research Proceedings 1989*. Berlin: Springer, pp87-94.
M. Kuby, T. Friesz	A mixed-integer programming model for analyzing China's coal shortage. published as: Kuby, M.; Neuman, ?.; Zhang, ?.; Cook, ?,; Zhou, ?.; Friesz, T.; Shi, ?.; Gao, ?.; Watanatada, ?.; Cao, ?.; Sun, ?.; Xie, ?. "A strategic investment planning model for China's coal and electricity delivery system," *Energy* 18: 1993, 1-24.

E.L. Hillsman, J. Ray, C. Liu	Locating power supply facilitites to introduce electricity service into a territory.

Thursday p.m., session 2: Facility location on networks I

CHAIR: L. Hakimi

D. Chhajed, T.J. Lowe	M-median and m-center problems with mutual communication: solvable special cases. published as: Chhajed, D.; Lowe, T.J. "Locating facilities which interact: some solvable cases," *Annals of Operations Research* 40: 1992, 101-124.
P. Slater	On structural results for sequences of central sets in a graph.
S.L. Hakimi, E.F. Schmeichel, M. Labbé	On locating path- or tree-shaped facilities on networks. published as: Hakimi, S.L.; Schmeichel, E.F.; Labbé, M. "On locating path- or tree-shaped facilities on networks," *Networks* 23: 1993, 543-555.

Friday a.m., session 1: Competitive location problems I

CHAIR: S.Chiu

S. Chiu, M. Brandeau	Competitive location problems in a user-optimizing environment. published as: Chiu, S.; Brandeau, M. "Location of competing private facilities in a user-optimizing environment with market externalitites," *Transportation Science 28*: 1994,125-140 and Chiu, S.; Brandeau, M.; Kumar, **?**.; Grossman, **?** "Location with market externalities," in *Facility Location: A Survey of Applications and Methods*, Drezner, Z.; Springer, **?**, Eds. publisher, place 1995, pages and Chiu, S.; Brandeau, M. "Facility location in a user-optimization environment with market externalities: analysis of customer equilibria and optimal public facility location," *Location Science* 2: 1994, 129-147.
T. Miller, R.L. Tobin, T.L. Friesz	Network facility location models in Stackleberg-Nash-Cournot spatial competition. published as: Miller, T.; Tobin, R.L.; Friesz, T.L. "Network facility location models in Stackleberg-Nash-Cournot spatial competition," *Papers in Regional Science: The Journal of the RSAI* 71(3): 1992.
M. Labbé, S.L. Hakimi	Market and locational equilibrium for two competitors. published as: Labbé, M.; Hakimi, S.L. "Market and locational equilibrium for two competitors," *Annals Operations Research* 39: 1991, 749-756.

Friday a.m., session 2: Competitive location problems II
CHAIR: S. Chiu

A. Suzuki	A competitive location problem in the Euclidean plane. published as: Suziki, A. "A competitive location problem in the Euclidean plane," *Nanzan Management Review* 7: 1993, 431-455.
P. Hansen, D. Peeters, J.F. Thisse	Facility location under zonal pricing.
J.C. Thill	Demand sensitivity to space-price competition with Manhattan and Euclidean distance metrics. published as: Thill, J.C.; Rushton, G. "Demand sensitivity to space-price competition with Manhattan and Euclidean representations of distance," *Annals of Operations Research* 40: 1992, 381-401.

Friday p.m., session 1: Multiobjective location models I
CHAIR: H.A. Eiselt

H.A. Eiselt	Network location with minimax and maximin objective. published as: Eiselt, H.A. "Hotelling's duopoly on a tree," *Annals of Operations Research* 40: 1992, 195-207.
E. Erkut, S. Neuman	A multiobjective model for locating undesirable facilitites. published as: Erkut, E.; Neuman, S. "A multiobjective model for locating undesirable facilities," *Annals of Operations Research* 40: 1992, 209-227.
M.J. Hodgson, S.K. Jacobsen	Comparison of a gravity and an expected distance hierarchical location-allocation model.

Friday p.m., session 2: Network design
CHAIR: O. Berman

O. Berman, A. Odoni	Improving the location of minisum facilities through network modification. published as: Berman, O.; Ingco, D.I.; Odoni, A.R. "Improving the location of minisum facilities through network modification," *Annals of Operations Research* 40: 1992, 1-16.
J.G. Klincewicz	Avoiding local optima in the p-hub location problem using tabu search and GRASP. published as: Klincewicz, J.G. "Avoiding local optima in the p-hub location problem using tabu search and GRASP," *Annals of Operations Research* 40: 1992, 283-302.
J. Current, D. Schilling	The median tour and maximal covering tour problems. published as: Current, J.; Schilling, D. "The median tour and maximal covering tour

	problems: formulations and heuristics," *European Journal of Operational Research* 73: 1994, 114-126.
J.H. Kuiper, J.H.P. Paelinck, K.E. Rosing	Location allocation in the study of theoretical space. published as: Kuiper, J.H.; Paelinck, J.H.P.; Rosing, K.E. "Flux de transports dans un système Tinbergen-Bos Métrisé," *Revue d'Economie Régionale et Urbaine* 13: 1991, 281-287.

Monday a.m., session 1: Stochastic location problems III
CHAIR: M. Labbé

V. Marianov, C. ReVelle	A probabilistic fire protection siting model with joint reliability requirements. published as: Marianov, V.; ReVelle, C. "A probabilistic fire protection siting model with joint reliability," *Papers in Regional Science, The Journal of RSAI* 73: 1992, 217-241.
S. Prasad, R. Batta	Efficient facility locations on a network operating as an M/G/1 queue. published as: Prasad, S.; Batta., R. "Efficient facility locations on a tree network operating as a FIFO M/G/1 queue," *Networks* 23: 1993, 597-603.
J.B.G. Frenk, M. Labbé, R.J. Visscher, S.Z. Zhang	The stochastic queue location problem in the plane. not published except in doctoral thesis of S. Zhang, "Stochastic queue location problems," Tinbergen Institute Series 14, Thesis Publisher, Amsterdam, 1991..

Monday a.m., session 2: Applications II
CHAIR: R.L. Church

R.L. Church, M.F. Goodchild	Database system design and placement for geographical information systems.
J. Martinich	Dynamic production-location models using activity analysis.
R.L. Francis	Evaluating proposed locations for vehicle exhaust emission inspection stations in Florida: an application.

Monday p.m., session 1: Facility location on networks II
CHAIR: T. Lowe

M.J. Hodgson, K.E. Rosing	A network location-allocation model trading off flow capturing and p-median objectives. published as: Hodgson, M.J.; Rosing, K.E. "A network location-allocation model trading off flow capturing and p-median objectives," *Annals of Operations Research* 40: 1992, 247-260.

J.R Weaver, R.L. Church	A median location model which allows nonclosest unit service and multiple service units at a site.
M. Koerkel	The simple plant location problem - revisited. not published.

Monday p.m., session 2: Facility location on networks III

CHAIR: T. Lowe

Y. Xu, R.L. Francis, T.J. Lowe	The multimedian location problem on a network: exploiting block structure. published as: Xu, Y.; Francis, R.L.; Lowe, T.J. "The multimedian location problem on a network: exploiting block structure," *Transportation Science 28*: 1994, 116-124.
R.D. Galvao, E.D.R.S. Gonzales	A lagrangean heuristic for the p_k-median dynamic location problem. did not present, but the paper was published as: Galvao, R.D.; Gonzales, E.D.R.S. "A lagrangean heuristic for the p_k-median dynamic location problem," *European Journal of Operational Research* 58: 1992: 250-262.
W.J. Hopp, M.S. Daskin, B. Medina	Forecast horizons and dynamic facility location planning. published as: Daskin, M.S.; Hopp, W.J.; Medina, B. "Forecast horizons and dynamic facility location planning," *Annals of Operations Research* 40: 1992, 125-151.

Tuesday a.m., session 1: Location problems on the plane I

CHAIR: Z. Drezner

I. Bongartz, P.H. Calamai, A.R. Conn	A projection-relaxation method for a location-allocation problem. published as: Bongartz, I.; Calamai, P.H.; Conn, A.R. "A projection for ℓ_p norm location-allocation problems," *Mathematical Programming* 66: 1994, 283-312.
H. Juel, R.F. Love	The dual of a generalized minimax location problem with limited distances. published as: Juel, H.; Love, R.F. "The dual of a generalized minimax location problem," *Annals of Operations Research* 40: 1992, 261-264.
Z. Drezner, A. Mehrez, G.O. Wesolowsky	The facility location problem with limited distances. published as: Drezner, Z,; Mehrez, A.; Wesolowsky, G.O. "The facility location problem with limited distances," *Transportation Science* 25: 1991, 183-187.

Tuesday a.m., session 2: Location problems on the plane II

CHAIR: Z. Drezner

M.E. O'Kelly	A clustering approach to the planar hub location. published as: O'Kelly, M.E. "A clustering approach to the planar hub location," *Annals of Operations Research* 40: 1992, 339-353.
F. Plastria	The Euclidean p-center sum problem. did not present; presented instead at EWGLA-Chios, 1989.
K.E. Rosing	Solutions to the multi-Weber problem on the Euclidean norm via the rectiliear norm.

Tuesday p.m., session 1: Obnoxious location problems

CHAIR: A. Tamir

A. Tamir	Obnoxious facility location on graphs. published as: Tamir, A. "Obnoxious facility location on graphs," *SIAM Journal on Discrete Mathematics* 4: 1991, 550-567.
C.M. Klein, R.K. Kincaid	Analysis of discrete obnoxious location problems. published as: Klein, C.M.; Kincaid, R.K. "The discreet anti-p-center problem," *Transportation Science* 28: 1994, 77-79.
J. Karkazis, T.B. Boffey	A branch-and-bound algorithm for the location of obnoxious facilities causing atmospheric pollution. did not present.

Tuesday p.m., session 2: Multiobjective location models II

CHAIR: J. Current

U.S. Pelakar, C.L. Stowers	Bilevel models for siting and routing hazardous materials.
R.L. Church, J. Current	The minimal cost/maximal covering forest problem on a tree.

also:

J. Campbell. "Location and allocation for distribution systems with transshipments and transportation economies of scale," *Annals of Operations Research* 40: 1992, 77-99.