ISOLDE VI: Lesvos & Chios

ThC: Obnoxious Location and Hazardous Materials
        CHAIR: J. Current

M. Wyman,   A multiobjective location-allocation model for assessing toxic wate
M. Kuby   processing technologies. published as: Wyman, M.; Kuby, M.
                     "Proactive optimization of toxic waste transportation, location and
                     technology," *Location Science* 3: 1995, 167-185.

I. Giannikos   Locating multiple obnoxious facilities in the plane.

J. Current,   Risk, equity and efficiency in facility location and transportation of
S. Ratick   hazardous materials. published as: Current, J.; Ratick, S. "A model to
                     assess risk, equity and efficiency in facility location and transportation
                     of hazardous materials," *Location Science* 3: 1995, 187-201.

M.C. Fonesca,   Location of semiobnoxious facilities: some new methods. not submitted
M.E. Captivo   for publication.

ThD: Telecommunications
        CHAIR: G. Laporte

G. Dammico,   A facility location problem in a tree hierarchical networks. published
U. Mocci,   as: Dammico, G.; Mocci, U.; Pesamosca, G. "On the facility location in
G. Pesamosca   hierarchical networks," *Studies in Locational Analysis* 6: 1994, 19-30.

H.A. Eiselt,   Location of facilities on a network subject to a single node failure.
M. Gendreau,   published as: Eiselt, H.A.; Gendreau, M.; Laporte, G. "Optimal
G. Laporte   location of facilities on a network with an unreliable node or link,"
                     Information Processing Letters 58: 1996, 71-74.

A. Migdalas,   Terminal assignment and layout problem in hierarchical
S.C. Narula   communication networks. published as: Migdalas, A.; Narula, S.C.
                     "The combined terminal assignment and layout problem," *Studies in
                     Locational Analysis* 4: 1993, 225-229.

ThE: Planar location
        CHAIR: H. Juel

S.K. Jacobsen,   On heuristics for location in the plane. not published.
H. Juel

E. Carrizosa,   Simpson points in constrained location problems. published as:
F.R. Fernandez   Carrizosa, E.; Conde, E.; Munoz-Marquez, M.; Puerto, J. "Simpson
                     points in planar problems with locational constraints. The roundnorm

case," *Mathematics of Operations Research*, to appear, and Carrizosa, E.; Conde, E.; Munoz-Marquez, M.; Puerto, J. "Simpson points in planar B problems with locational constraints. The polyhedron-gauge case," *Mathematics of Operations Research*, to appear.

FrB: Plant location
> CHAIR: K. Jornsten

I. Correia, M.E. Captivo	Upper and lower bounds for a capacitated plant location problem. published only as: Correia, I.; Captivo, M.E. "Upper and lower bounds for a capacitated plant location problem," Working paper 14/95, Centro de Investigacao Operacional, Universidade de Lisboa (research center in Operations Research at the University of Lisbon).
I. Barros, M. Labbé	A general model for the uncapacitated facility and depot location problem. published as: Barros, I.; Labbé, M. "A general model for the uncapacitated facility and depot location problem," *Location Science* 2: 1994, 173-191.
K. Jornsten, K. Holmberg	The simplest plant location problem with spatial interaction: an exact formulation and a dual ascent algorithm.

FrC: p-Centre problems
> CHAIR: J. Thisse

A. Tamir	The least element property of center location on tree networks with applications to distance and precedence constrained problems. published as: Tamir, A. "The least element property of center location on tree networks with applications to distance and precedence constrained problems," *Mathematical Programming* 62: 1993, 475-496.
D. Peeters, J. Thisse	The location of economic activities when the customers have the choice between pick-up and delivery.
E. Carrizosa, F. Plastria	Planar misquantile and maxcovering location problems. published only as: Carrizosa, E.; Plastria, F. "Polynomial algorithms for parametric minquantile and maxcovering planar location problems with locational constraints," Report BEIF/47, Vrije Universiteit Brussel, 1992.
R. Hassin, D. Morad	Computational comparison of algorithms for the p-centre problem.

FrD: Dynamic problems
     CHAIR: M. Labbe

S.L. Hakimi, M. Labbe, E.F. Schmeichel	Location on time varying networks. not published.
B.C. Tansel	Median location on time dependent networks. submitted to *Computers and Operations Research*; awaiting resply.
T. Friesz	A dynamic network disequilibrium facility location model.

FrE: General
     CHAIR: M. Gendreau

T. Crainic, M. Gendreau, G. Laporte	A location problem occurring in the field of pavement management. not yet complete.
V. Stellakou	The impact of expansion of the city of Mytilene on the level of access to its public sector facilities and relocation proposals.
E. Melachrinoudis, T.P. Cullinane, S. Benhamou	Sensitivity analysis of weighting factors in location problems. published as: Melachrinoudis, E.; Cullinane, T.P.; Benhamou, S. "Sensitivity analysis of weighting factors in location problems," *Studies in Locational Analysis* 4: 1993; eds. B. Boffey, J. Karkazis, pp. 213-217.
J. Bramel, D. Simchi-Levi	A location based heuristic for general routing problems. published as: Bramel, J.; Simchi-Levi, D. "A location based heuristic for general routing problems," *Operations Research* 43: 1995, 649-660.

SaB(T): Complexity
     CHAIR: B. Pelegrin

D. Hochbaum	Complexity and algorithms for layout spacing and compaction of VLSI circuits. not published.
B. Pelegrin, L. Canovas	On the spherical p-cover problem. published as: Pelegrin, B.; Canovas, L. "On the spherical p-cover problem,: *Studies on Locational Analysis* 4: 1993, 39-43.
J. Brimberg, R. Love, G. Wesolowsky	Solving a class of two-dimensional location-allocation problems by dynamic programming. published as: Brimberg, J.; Wesolowsky, G.O. "The rectilinear distance minisum problem with minsum distance constraints," accepted for *Location Science* May, 1995.

SaB(P): Practical Locational Analysis
       CHAIR: H. Coccosis

S. Singh	Impact of settlement size and pattern on the locational system of facility distribution. published as: Singh, S. "Impact of settlement size and pattern on the locational system of facility distribution," *Studies in Regional Urban Planning (Selected Papers)* 1: 1994, 57-70.
H. Kuiper	Optimal location patterns in a multi-sector economy.
D. Peeters, I. Thomas	The effect of spatial structure on location allocation results. published as: Peeters, D.; Thomas, I. "The effect of spatial structure on location allocation results," *Transportation Science* 29: 1995, 366-373.

SaC(T): Theoretical Locational Analysis
       CHAIR: P. Hansen

J. Gromicho, J. Frenk, S. Zhang	On the optimality criteria of a general class of convex and quasiconvex location problems on the plane. published as: Gromicho, J.; Frenk, J.; Zhang, S. "On the optimality criteria of a general class of convex and quasiconvex location problems on the plane," *Journal of Optimisation Theory and Applications* 89: 1996, 39-63.
P. Hansen, F. Roberts	An impossibility result in axiomatic location theory.
K. Rosing, J. J. van Dijk	Estimating the probability of heuristic improvement: a large scale application of extreme value theory. not published.
S. Zhang, J. Frenk, J. Gromicho	A deep cut ellipsoid algorithm for convex and quasiconvex programming: theory and application in Location Theory. published as: Zhang, S.; Frenk, J.; Gromicho, J. "A deep cut ellipsoid algorithm for convex programming," *Mathematical Programming* 63: 1994, 83-108.

SaC(P): Decision support systems
       CHAIR: J. Climaco

T. Koutroumanides, A. Karakos	Study of the land-planning distribution of the industrial employment and the employment in basic branches of the services in the thirteen administrative regions of Greece. published as: Koutroumanides, T.; Karakos, A. "Study of the land planning distribution of the industrial employment and the employment in basic branches of the services in the thirteen administrative regions of Greece," *Studies in Regional Urban Planning* 1: 1994, 37-56.

K. Koutsopoulos, G. Photis	Supporting locational decision making: regionalization of service delivery system.
J. Coutinho Rodrigues, J. Climaco	A visual interaction decision support environment dedicated to network planning problems. published as: Coutinho Rodriguez, J.; Climaco, J. "A visual interaction decision support environment dedicated to network planning problems," *Studies in Locational Analysis* 6: 1994, 51-70.
A. Karakos, T. Koutroumanides	Tool for a rational region-making. not published.

MoB: Queuing based and probabilistic models
CHAIR: K. Zografos

V. Marianov, C. ReVelle	The queuing maximal availability location problem: a model for the siting of emergency vehicles. published as: Marianov, V.; ReVelle, C. "A probabilistic fire protection siting model with joint reliability requirements," *Papers in Regional Science: The Journal of the RSAI* 71: 1992, 217-241.
E. Carrizosa, E. Conde, F. Fernandez, M. Munoz, J. Puerto	Customer admission policies in queuing-location problems. published as: Carrizosa, E.; Conde, E.; Fernandez, F.; Munoz, M.; Puerto, J. "Admission policies in Loss queueing models with heterogeneous arivals," *Management Science* accepted for publication.

MoB: Competitive models
CHAIR: H.A.Eiselt

H.A. Eiselt, J. Bhadury	Reachability and stability of equilibria in competitive location models.published as: Eiselt, H.A.; Bhadury, J. "Stability of Nash equilibria in locational games," *Recherche Opérationelle/ Operational Research* 29: 1995, 19-33. and Bhadury, J.; Eiselt, H.A. "Reachability of locational Nash equilibria," *Operations Research Spektrum* to appear possibly in 1998.
D. Serra, C. ReVelle	Market capture by two competitors: the pre-emptive location problem. published as: Serra, D.; ReVelle, C. "Market capture by two competitors: the pre-emptive location problem," *Journal of Regional Science* 34: 1994, 549-561.
J. Bhadury	Competitive location under uncertainty. published as: Bhadury, J. "Competitive location under uncertainty of costs," *Journal of Regional Science*

MoD: Criteria and measures
CHAIR: E. Erkut

M. Marsh, D. Schlling	Foundations of equity measurement in facility siting decisions. published as: Marsh, M.T.; Schilling, D.A. "Foundations of equity measurement in facility siting decisions," *European Journal of Operational Research 74*: 1994,1-17.
E. Erkut	Inequality measures for location problems. published as: Erkut, E. "Inequality measures for location problems," *Location Science* 1: 1993, 199-217.
M. Gendreau, G. Laporte, J. Mesa	A survey of criteria used in the location of subway stations and routes. published as: Gendreau, M.; Laporte, G.; Mesa, J. "Locating rapid transit lines," *Journal of Advanced Transportation* 29: 1995, 145-162.

MoE: Solution methods
CHAIR: M. Daskin

J. Frenk, J. Gromicho, S. Zhang	General models in min-max continuous location theory and solution techniques. published as: Frenk, J.; Gromicho, J.; Zhang, S. "General models in min-max continuous location theory and solution techniques," *Journal of Optimization Theory and Applications* 89: 1996, 65-89.
M. Hodgson, S. Newman	A GIS approach to eliminating source C aggregation error in p-median models.
M. Daskin, P. Jones	A heuristic approach for complex allocation problems arising in applied facility location modelling. published as: Daskin, M.; Jones, P. "A new approach to solving applied location/allocation problems," *Microcomputers in Civil Engineering* 8: 1993, 409-421.

TuB: Planar location
CHAIR: G. Wesolowsky

J. Brimberg, R. Love, G.`Wesolowsky	The minisum problem with infeasible regions.
J. Thisse	The profit-maximising location-production problem in the plane.
Z. Drezner, G. Wesolowsky	Finding the circle or rectangle containing the minimum weight of points.

TuC: Multicriteria location problems
  CHAIR: L. Lundqvist

L. Lundqvist	Multicriterai analysis of housing location and infrastructure investments in urban planning.
C. Ferreira, J. Climaco, J. Paixao	The Location Covering Problem - a bicriterion interactive approach.
R. Ramos Dominguez, J. Sicilia	Efficient points in multiobjective networks.
H. Hamacher, S. Nickel	Efficient algorithm for bicriterial (restricted) planar median location problems. published as: Hamacher, H.; Nickel, S. "Multicriterial planar location problems," *European Journal of Operational Research* 94: 1996, 66-86.

TuD: Stochastic models
  CHAIR: J. Mesa

J. Mesa	Stochastic location problems and efficiency.
E. Carrizosa, E. Conde, F. Fernandez, M. Munoz, J. Puerto	Stochastic facility location problems using approximate average distances. published as: Carrizosa, E.; Conde, E.; Fernandez, F.; Munoz, M.; Puerto, J. "The generalized Weber problem with expected distances," *Recherche Opérationelle/Operations Research* 29: 1995, 35-57.
J.A. Moreno, J.M. Moreno	Stochastic procedures for p-center problems. not published.

TuE: Planar Problems
  CHAIR: C. ReVelle

J. Current, S. Ratick, C. ReVelle	Multiple facility location when the total number of facilities is uncertain. published as: Current, J.; Ratick, S.; ReVelle, C. "Multiple facility location when the total number of facilities is uncertain," *European Journal of Operational Research*
D. Chhajed, T. Lowe	Solving structural multifacility problems efficiently. published as: Chhajed, D.; Lowe, T.J. "Solving structural multifacility problems efficiently," *Transportation Science* 1995

B. Tansel, G. Yesilkokcen	Polynomially solvable cases of multifacility distance constraints on cyclic networks. published as: Tansel, B.; Yesilkokcen, G. "Polynomially solvable cases of multifacility distance constraints on cyclic networks," Research Report IEOR-9311. Dept. of Industrial Engineering, Ankara, Turkey, 1993. submitted to *Operations Research*; still awaiting reply. also included in: Tansel, B.; Yesilkokcen, G. "Composite regions of feasibility for certain classes of distance constrained network location problems," *Transportation Science* 30, 148-59.

WeB(T): Global optimisation
CHAIR: B. Jaumard

B. Jaumard	Weber's problem with concave costs.
H. Tuy, S. Ghannadan, A. Migdalas, P. Varbrand	Strongly polynomial algorithm for a production transportation problem with concave cost. published as: Tuy, H.; Ghannadan, S.; Migdalas, A.; Varbrand, P. "A strongly polynomial algorithm for a concave production-transportation problem with a fixed number of nonlinear variables," *Mathematical Programming* 72: 1996, 229-258.
P. Chen, P. Hansen, H. Tuy, B. Jaumard	Solving continuous location problems by D.C. programming.

WeB(T): Plant Locational Analysis
CHAIR: R. Francis

D. Yates, B. Boffey	Planning drainage networks. not published.
R. Francis, T. Lowe	Aggregation for the rectilinear distance p-median problem. published as: Francis, R.; Lowe, T. "Row-column aggregation for rectilinear distance p-median problems," *Transportation Science* 1996.
J. Campbell	Single and multiple allocation p-hub median problems. published as: Campbell, J. "Hub location and the p-hub median problem," *Operations Research* 44: 1996, 923-935.

WeC: Solution methods
        CHAIR: T. Crainic

T. Crainic   Parallel methods for location problems.

R. Galvao,   A lagrangean heutistic for the maximal covering location problem.
C. ReVelle   published as: Galvao, R.; ReVelle, C. "A lagrangean heuristic for the
                              maximal covering location problem," *European Journal of Operational
                              Research* 88: 1996, 114-123.

G. Megalokonomos,   A linear programming based tree-search algorithm for solving the
K. Zografos,   inverse center problem with capacity constraints.
A. Sissouras

WeD: General
        CHAIR: J.A. Moreno

V. Angelis   Location of obnoxious facilities.

K. Zografos   A multiobjective model for hazardous waste routing and siting
                              decisions.

also:

S. Singh. Agricultural regionalism in India. published as: Singh, S. "Agricultural regionalism in
India," *Studies in Regional Urban Planning* 3: 1994, 247-259.

E. Melachrinoudis, H. Min A multiobjective airport capacity expansion model. published as:
"Dynamic expansion and location of an airport: a multiple objective approach," *Transportation
Research* to appear.