

# RESUME (Zvi Drezner)<sup>1</sup>

## Present Affiliation

Professor, Department of Information Systems and Decision Sciences, Steven G. Mihaylo College of Business and Economics, California State University-Fullerton, Fullerton, CA 92834. Tel: (714) 278-2712. Fax: (714) 278-5940. E-mail: zdrezner@Fullerton.edu (since 1985).

## Education

- Ph.D. in Computer Science, The Technion, Haifa, Israel (1975).
- B.Sc. in Mathematics, The Technion, Haifa, Israel (1965).

## Major Awards

- The Lifetime Achievement in Location Analysis Award was awarded by the INFORMS Section on Location Analysis. This award is given once every three years to the most prominent researcher in the world working in the field of location analysis. The award was announced at the ISOLDE X meeting in Seville, Spain, June 7, 2005. I am the fifth recipient of the award. The first four were from University of Florida, Johns Hopkins University, University of Wisconsin-Madison, and University of Liverpool, England.
- The 2008 Wang Award. The Wang award was established in fall 1998 when then-Trustee Stanley T. Wang provided \$1 million to reward outstanding faculty and administrators. The award is designed to "celebrate those CSU faculty and administrators who through extraordinary commitment and dedication have distinguished themselves by exemplary contributions and achievements in their academic disciplines and areas of assignment." Annually, during a 10 year-period, four faculty and one administrator throughout the California State University system have received \$20,000 awards. This is the tenth and final year the awards have been given.
- The University Outstanding Professor is awarded annually by the California State University-Fullerton to the professor who excelled in teaching, research, and service to the university and the community. Awarded for the 2005/2006 academic year.
- Outstanding Faculty Award, Steven G. Mihaylo College of Business and Economics, California State University-Fullerton (1995).

## Academic Experience

- Chairman, Department of Information Systems and Decision Sciences, Steven G. Mihaylo College of Business and Economics, California State University-Fullerton, Fullerton, California (1986-95).
- Associate Professor of Business Administration and Computer Information Science, Department of Management Science and Information Systems, University of Michigan-Dearborn (1979-85).

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<sup>1</sup> An electronic version of this resume can be found in <http://business.fullerton.edu/isds/zdrezner>

- Assistant Professor, Department of Information Systems and Analysis, Central Michigan University, Mount Pleasant, Michigan (1978-79).

### **Professional Experience**

- Visiting Professor, Marshall School of Business, University of Southern California (2002-2003)
- Visiting Professor, Graduate School of Management, University of California-Irvine (2000-2002).
- Visiting Professor, Department of Engineering Science, University of Auckland, Auckland, New Zealand, Summer 1997.
- Visiting Professor, Graduate School of Management, University of California-Irvine (1997).
- Visiting Professor, Department of Management, School of Business, The Hong Kong University of Science and Technology, Hong Kong (Spring, 1993).
- Visiting Scientist, Department of Management Science and Information Systems, Faculty of Business, McMaster University, Hamilton, Canada (Summers, 1989, 1992, 1994, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2004, 2005, 2006).
- Consultant, South Coast Air Quality Management District. Statistical forecasting projects (1988-89).
- Visiting Professor, Graduate Institute of Business Administration, Chulalongkorn University, Bangkok, Thailand. Under the auspices of the Kellogg Graduate School of Management, Northwestern University (Fall, 1986).
- Visiting Professor, Kellogg Graduate School of Management, Northwestern University, Evanston, Illinois (Summer, 1986).
- Consultant, the Governments of Ecuador and Bolivia. Sponsored by the World Bank (1984-91).
- Post Doctoral Fellow, Department of Management Science and Information Systems, Faculty of Business, McMaster University, Hamilton, Canada (1976-78).
- Consultant, Israeli Paper Mills. Operations Management projects (1971-72).
- Systems Analyst, the computer center of the Israeli Defense Forces (1965-76).

### **Research Interests**

Layout and Location; Metaheuristics; Mathematical Programming; Computational Statistics; Quality Control; Information Systems.

### **Teaching Experience**

Taught in the undergraduate, MBA, Executive MBA, and Ph.D. levels: Operations Management, Operations Research, Business Modeling Using Spreadsheets, Linear Programming, Statistics, Decision Making, Deterministic Methods in Operations Research,

Stochastic Methods in Operations Research, Simulation, Facility Layout and Location, Computer Systems and Management, Excel, VBA for Excel, Programming Languages (BASIC, FORTRAN, PL/I, COBOL).

### **Service**

#### University

|   |  |
|---|--|
| University Personnel Committee                              | Chair, Outstanding Professor Selection Committee |
| Chair, Professional Leaves Committee                        |  |
| University Research Committee                               | Executive Vice President Selection Committee     |
| Academic Senate   | Chair, Faculty Development Center Board          |
| Treasurer, Academic Senate                                  | Academic Standards Committee                     |
| Executive Committee, Academic Senate                        | Academic Appeals Committee                       |
| Chair, CBE Dean Selection Committee (1989/90) and (1998/99) | President's Scholars Screening Committee         |

#### College

|   |   |
|---|---|
| Chair, CBE Senate                                 | Vice Chair, CBE Senate                        |
| Chair, CBE Graduate Committee                     | Chair, CBE Associate Dean Selection Committee |
| Chair, CBE Instruction Committee                  | CBE Budget Committee                          |
| Chair, CBE Executive committee                    | CBE Constitution Committee                    |
| Chair, Ad-hoc Committee for Restructuring the MBA | Strategic Planning Committee                  |

#### Department

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Chair, ISDS Department (1986-1995)    | Vice Chair, ISDS Department         |
| Chair, Department Executive Committee | Parliamentarian, ISDS Department    |
| Chair, Department Personnel Committee | ISDS Department Selection Committee |

### **Other Awards**

- \* Outstanding Research Award, California State University-Fullerton, (2007).
- \* Outstanding Service to the University Award, California State University-Fullerton, (2006).
- \* The Drouillard Scholar Award for the best paper published by a CBE faculty (2003).
- \* Outstanding Faculty Recognition for "Scholarship that results in the highest quality, peer reviewed journal articles" California State University-Fullerton (2001).
- \* Named by an honor student at UCI as "The faculty member who has made the greatest impact on his/her education," (2000).
- \* Outstanding Service to the University Award, California State University-Fullerton,

(2000).

- \* Teaching Excellence Award, voted by the students of the Management Minor and nominated by the Dean, Graduate School of Management, The University of California, Irvine (1999).
- \* Best paper award, 27th Western DSI Conference, Reno, April 1998.
- \* Outstanding Recognition for Creative and Scholarly Activity, California State University, Fullerton (1998).
- \* Performance Salary Step Increase, California State University-Fullerton (2 steps in 1996, 3 steps in 1997).
- \* Teaching Excellence Award, voted by the students of the Management Minor and nominated by the Dean, Graduate School of Management, The University of California, Irvine (1996).
- \* Distinguished Faculty Member, School of Business Administration and Economics, California State University-Fullerton (1996).
- \* Meritorious Performance and Professional Promise Awards, California State University-Fullerton (1986-89).
- \* Kent-Moore Distinguished Teacher Award, University of Michigan-Dearborn (1981).
- \* First Place in a national competition on Astronomy (Israel, 1964).
- \* First Place in a national competition of all high school seniors in Israel on mathematics. Awarded a scholarship to study mathematics in the Technion (1961).

### **Editorships**

- \* Associate Editor, *Discrete Optimization* since 2007.
- \* Associate Editor, *IMA Journal of Management Mathematics* since 2006
- \* Editor, Special issue of *IMA Journal of Management Mathematics* (2004-2005)
- \* Editor, Volume of *Annals of Operations Research* (2004-2006).
- \* Operations Management Area Editor, *Journal of Applied Mathematics and Decision Sciences* (since 1999).
- \* Associate Editor, *International Journal of Management Science and Regional Development* (since 1996).
- \* Associate Editor, *Location Science* (1991-1999).
- \* Editor, *Annals of Operations Research*, Volume 40 (1992).

### **Professional Activities**

- \* Chairing the committee to select the Life Time Achievement Award by the INFORMS Section on Location Analysis for 2008.
- \* Chairing the committee to select the Chuck ReVelle Rising Star Award by the INFORMS

Section on Location Analysis for 2008.

- \* Organizing Committee eleventh ISOLDE (*International Symposium On Locational Decisions*) conference in Santa Barbara, CA (2008).
- \* CPMS (Council on Practice in the Management Sciences) Council member (since 2003).
- \* INFORMS Subdivisions Council Member (2002-2003).
- \* International Scientific Advisory Committee, International Conference on Environment, Locational Decisions and Regional Planning (2002).
- \* Vice President, Section on Locational Analysis, INFORMS (1996-98).
- \* Organizing Committee, ORSA/TIMS Joint National Meeting, Anaheim, November 1991.
- \* President, ORSA/TIMS Chapter of Orange County (1990-93).
- \* Chairman, organizing committee, fifth ISOLDE (*International Symposium On Locational Decisions*) conference in Fullerton, CA (1990).

## Citations

The following nineteen refereed publications were cited at least 40 times each. A total of 104 publications were cited at least 10 times each. The number in parentheses following the publication is the number of citations reported either in Web of Science, or scholar.google.com. The complete list is found in the [Excel file](#).

Chen F., Z. Drezner, J. Ryan, and D. Simchi-Levi (2000) "Quantifying the Bullwhip Effect in a Simple Supply Chain: The Impact of Forecasting, Lead Times and Information," *Management Science*, 46, 436-443. **(679)**

*Facility Location: A Survey of Applications and Methods* Z. Drezner (Ed.), Springer (1995). **(436)**

*Facility Location: Applications and Theory*, Z. Drezner and H.W. Hamacher (Eds.), Springer (2002). **(211)**

Drezner Z. and G.O. Wesolowsky (1990) "Computation of the Bivariate Normal Integral," *Journal of Statistical Computation and Simulation*, 35, 101-107. **(104)**

Chen F., Z. Drezner, J.K. Ryan, and D. Simchi-Levi (1998) "The Bullwhip Effect: Managerial Insights on the Impact of Forecasting and Information on Variability in a Supply Chain," in *Quantitative Models for Supply Chain Management*, S. Thayur, M. Magazine, and R. Ganesham (Eds.), Kluwer Publishing, 417-439. **(101)**

M.G.C. Resende, K.G. Ramakrishnan, and Z. Drezner (1995) "Computational Experiments with the Lower Bound for the Quadratic Assignment Problem Based on Linear Programming," *Operations Research*, 43, 781-791. **(72)**

Drezner Z. and S.Y. Nof (1984) "On Optimizing Bin Picking and Insertion Plans for Assembly Robots," *IIE Transactions*, 16, 262-270. **(72)**

Pasternack B.A. and Z. Drezner (1991) "Optimal Inventory Policies for Substitutable Commodities," *Naval Research Logistics*, 38, 221-240. **(66)**

- Drezner Z. (2003) "A New Genetic Algorithm for the Quadratic Assignment Problem," *INFORMS Journal of Computing*, 15, 320-330. (65)
- Drezner Z. (1984) "The  $p$ -Center Problem - Heuristic and Optimal Algorithms," *Journal of the Operational Research Society*, 35, 741-748. (61)
- Alp O., Z. Drezner, and E. Erkut (2003) "An Efficient Genetic Algorithm for the  $p$ -Median Problem," *Annals of Operations Research*, 122, 21-42. (54)
- Drezner Z. (1982) "Competitive Location Strategies for Two Facilities," *Regional Science and Urban Economics*, 12, 485-493. (53)
- Drezner Z. (1984) "The Planar Two-Center and Two-Median Problems," *Transportation Science*, 18, 351-361. (52)
- Drezner Z. and E. Zemel (1992) "Competitive Location in the Plane," *Annals of Operations Research*, 40, 173-193. (49)
- Drezner Z. (1980) "DISCON - A New Method for the Layout Problem," *Operations Research*, 28, 1375-1384. (48)
- Drezner Z., K. Klamroth, A. Schöbel, and G.O. Wesolowsky (2002) "The Weber Problem," in *Facility Location: Applications and Theory*, Z. Drezner and H. Hamacher, eds., 1-36, Springer, Berlin. (46)
- Drezner Z. (1987) "On the Rectangular  $p$ -Center Problem," *Naval Research Logistics Quarterly*, 34, 229-234. (41)
- Drezner Z. and G.O. Wesolowsky (1980) "Single Facility  $l_p$  Distance Minimax Location," *SIAM Journal of Algebraic and Discrete Methods*, 1, 315-321. (40)
- Suzuki A. and Z. Drezner (1996) "The  $p$ -Center Location Problem in an Area," *Location Science*, 4, 69-82. (40)

## **Refereed Journal Articles, Books, and Book Chapters**

### **Edited Books**

1. *Facility Location: Applications and Theory*, Z. Drezner and H.W. Hamacher (Eds.), Springer (2002).
2. *Facility Location: A Survey of Applications and Methods*, Z. Drezner (Ed.), Springer (1995).

### **Papers Published in Operations Research**

3. Drezner Z. and A. Suzuki (2004) "The Big Triangle Small Triangle Method for the Solution of Non-Convex Facility Location Problems," *Operations Research*, 52, 128-135.
4. M.G.C. Resende, K.G. Ramakrishnan, and Z. Drezner (1995) "Computational Experiments with the Lower Bound for the Quadratic Assignment Problem Based on Linear Programming," *Operations Research*, 43, 781-791.

5. Drezner Z., and B. Gavish (1985) " $\varepsilon$ -Approximations for Multidimensional Weighted Location Problems," *Operations Research*, 33, 772-783.
6. Drezner Z. (1983) "The Nested Ball Principle for the Relaxation Method," *Operations Research*, 31, 587-590.
7. Drezner Z. (1981) "On Location Dominance on Spherical Surfaces," *Operations Research*, 29, 1218-1219.
8. Drezner Z. and G.O. Wesolowsky (1980) "The Expected Value of Perfect Information in Facility Location," *Operations Research*, 28, 395-402.
9. Drezner Z. (1980) "DISCON - A New Method for the Layout Problem," *Operations Research*, 28, 1375-1384.

#### **Papers Published in Management Science**

10. Chen F., Drezner Z., J. Ryan, and D. Simchi-Levi (2000) "Quantifying the Bullwhip Effect in a Simple Supply Chain: The Impact of Forecasting, Lead Times and Information," *Management Science*, 46, 436-443.
11. Drezner Z. (1987) "A Heuristic Procedure for the Layout of a Large Number of Facilities," *Management Science*, 33, 907-915.
12. Drezner Z. (1981) "On a Modified One-Center Model," *Management Science*, 27, 848-851.
13. Drezner Z. and G.O. Wesolowsky (1978) "A Trajectory Method for the Optimization of the Multifacility Location Problem with  $l_p$  Distances," *Management Science*, 24, 1507-1514.

#### **Papers Published in IIE Transactions**

14. Berman O., Z. Drezner, Q. Wang, and G.O. Wesolowsky (2008) "The Route Expropriation Problem," *IIE Transactions*, 40, 468-477.
15. Aboolian R., O. Berman, and Z. Drezner (2008) "Location-Allocation of Service Units on a Congested Network," *IIE Transactions*, 40, 422-433.
16. Berman O. and Z. Drezner (2006) "Location of Congested Capacitated Facilities with Distance Sensitive Demand," *IIE Transactions*, 38, 213-221.
17. Berman O., Z. Drezner, J. Wang and G.O. Wesolowsky (2003) "The Minimax and Maximin Location Problems with Uniform Distributed Weights," *IIE Transactions*, 35, 1017-1025.
18. Berman O., Z. Drezner and G.O. Wesolowsky (2002) "Satisfying Partial Demand in Facilities Location," *IIE Transactions*, 34, 971-978.
19. Berman O., Z. Drezner and G.O. Wesolowsky (2001) "Location Models with Groups of Demand Points on a Network," *IIE Transactions*, 33, 637-648.
20. Drezner Z. and G.O. Wesolowsky (1998) "Optimal Axis Orientation for Rectilinear Minisum and Minimax Location," *IIE Transactions*, 30, 981-986.
21. Drezner Z. and G.O. Wesolowsky (1997) "On the Best Location of Signal Detectors," *IIE Transactions*, 29, 1007-1015.

22. Drezner Z. and G.O. Wesolowsky (1995) "Multivariate Screening Procedures for Quality Cost Minimization," *IIE Transactions*, 27, 300-304.
23. Drezner Z. and G.O. Wesolowsky (1989) "Optimal Control of a Linear Trend Process with Quadratic Loss," *IIE Transactions*, 21, 66-72.
24. Drezner Z. (1988) "Maximizing the Minimum Sight Angle of a Set of Shapes," *IIE Transactions*, 20, 194-200.
25. Drezner Z. and S.Y. Nof (1984) "On Optimizing Bin Picking and Insertion Plans for Assembly Robots," *IIE Transactions*, 16, 262-270.
26. Drezner Z. (1983) "Constrained Location Problems in the Plane and on a Sphere," *IIE Transactions*, 15, 300-304.
27. Drezner Z. (1982) "Fast Algorithms for the Round Trip Location Problem," *IIE Transactions*, 14, 243-248.
28. Drezner Z. and G.O. Wesolowsky (1980) "A Maximin Location Problem with Maximum Distance Constraints," *AIIE Transactions*, 12, 249-252.
29. Drezner Z., and G.O. Wesolowsky (1980) "The Optimal Sight Angle Problem," *AIIE Transactions*, 12, 332-338.

#### **Papers Published in the *European Journal of Operational Research***

30. Drezner T., Z. Drezner, and G. O. Wesolowsky (2009) "Location with Acceleration-Deceleration Distance," *European Journal of Operational Research*, 198, 157-164.
31. Berman O., Z. Drezner, D. Krass, and G. O. Wesolowsky (2009) "The Variable Radius Covering Problem," *European Journal of Operational Research*, 196, 516-525.
32. Drezner Z. and S. Nickel (2009) "Solving the Ordered One-Median Problem in the Plane," *European Journal of Operational Research*, 195, 46-61.
33. Suzuki A. and Z. Drezner (2009) "The Minimum Equitable Radius Location Problem with Continuous Demand," *European Journal of Operational Research*, 195, 17-30.
34. Berman O. and Z. Drezner (2008) "The p-Median Problem Under Uncertainty," *European Journal of Operational Research*, 189, 19-30.
35. Drezner T. and Z. Drezner (2007) "The Gravity p-Median Model," *European Journal of Operational Research*, 179, 1239-1251.
36. Averbakh I., O. Berman, Z. Drezner, and G.O. Wesolowsky (2007) "The Uncapacitated Facility Location Problem with Demand-Dependent Setup and Service Costs and Flexible Allocation," *European Journal of Operational Research*, 179, 956-967.
37. Berman O., Z. Drezner, and G.O. Wesolowsky (2007) "The Transfer Point Location Problem," *European Journal of Operational Research*, 179, 978-989.
38. Drezner Z. and S. Shiode (2007) "A Distribution Map for the Weber Location Problem on a Network," *European Journal of Operational Research*, 179, 1266-1273.



39. Drezner Z. (2005) "Extended Concentric Tabu for the Quadratic Assignment Problem," *European Journal of Operational Research*, 160, 416-422.
40. Shiode S. and Z. Drezner (2003) "A Competitive Facility Location Problem on a Tree Network with Stochastic Weights," *European Journal of Operational Research*, 149, 47-52.
41. Berman O., D. Krass and Z. Drezner (2003) "The Gradual Covering Decay Location Problem on a Network," *European Journal of Operational Research*, 151, 474-480.
42. Drezner T., Z. Drezner, and S. Salhi (2002) "Solving the Multiple Competitive Facilities Location Problem," *European Journal of Operational Research*, 142, 138-151.
43. Drezner Z. and G.O. Wesolowsky (2001) "On the Collection Depots Location Problem," *European Journal of Operational Research*, 130, 510-518.
44. Berman O. and Z. Drezner (2000) "A Note on the Location of an Obnoxious Facility on a Network," *European Journal of Operational Research*, 120, 215-217.
45. Drezner Z. and C.H. Scott (1999) "On the Feasible Set for the Weber Problem and Applications," *European Journal of Operational Research*, 118, 620-630.
46. Drezner Z. and J. Guyse (1999) "Application of Decision Analysis Techniques to the Weber Facility Location Problem," *European Journal of Operational Research*, 116, 69-79.
47. Averbakh I., O. Berman, Z. Drezner, and G.O. Wesolowsky (1998) "The Plant Location Problem with Demand-Dependent Setup Cost and Centralized Allocation," *European Journal of Operational Research*, 111, 543-554.
48. Drezner Z. and G.O. Wesolowsky (1996) "Location-Allocation on a Line with Demand-Dependent Costs," *European Journal of Operational Research*, 90, 444-450.
49. Gurnani H., R. Akella and Z. Drezner (1996) "Capacity Planning Under Different Inspection Strategies," *European Journal of Operational Research*, 89, 302-312.
50. Drezner Z. and G.O. Wesolowsky (1989) "Multi-Buyer Discount Pricing," *European Journal of Operational Research*, 40, 38-42.
51. Drezner Z. (1986) "The p-Cover Problem," *European Journal of Operational Research*, 26, 312-313.
52. Drezner Z., A.Z. Szendrovits, and G.O. Wesolowsky (1984) "Multi-Stage Production with Variable Lot Sizes and Transportation of Partial Lots," *European Journal of Operational Research*, 17, 227-237.

#### **Papers Published in the *Journal of the Operational Research Society***

53. Drezner Z. and A. Suzuki "Covering Continuous Demand in the Plane," *Journal of the Operational Research Society*, accepted for publication.
54. Berman O., Z. Drezner, and G.O. Wesolowsky (2008) "The Multiple Location of Transfer Points," *Journal of the Operational Research Society*, 59, 805-811.
55. Drezner T. and Z. Drezner (2008) "Lost Demand in a Competitive Environment," *Journal of the Operational Research Society*, 59, 362-371.

56. Berman O. and Z. Drezner (2007) "The Multiple Server Location Problem," *Journal of the Operational Research Society*, 58, 91-99.
57. Drezner T., Z. Drezner and S. Salhi (2006) "A Multi-Objective Heuristic Approach for the Casualty Collection Points Location Problem," *Journal of the Operational Research Society*, 58, 727-734.
58. Berman O. and Z. Drezner (2003) "A Probabilistic One-Center Location Problem on a Network," *Journal of the Operational Research Society*, 54, 871-877.
59. Berman O., Z. Drezner and G.O. Wesolowsky (2003) "The Expropriation Location Problem," *Journal of the Operational Research Society*, 54, 769-776.
60. Berman O., Z. Drezner and G.O. Wesolowsky (2000) "Routing and Location on a Network with Hazardous Threats," *The Journal of the Operational Research Society*, 51, 1093-1099.
61. Drezner Z. and H Gurnani (2000) "Deterministic Hierarchical Substitution Inventory Models," *The Journal of the Operational Research Society*, 51, 129-133.
62. Drezner T., Z. Drezner and H.A. Eiselt (1996) "Consistent and Inconsistent Rules in Competitive Facility Choice," *The Journal of the Operational Research Society*, 47, 1494-1503.
63. Drezner Z., H. Gurnani, and B.A. Pasternack (1995) "An EOQ Model with Substitutions Between Products," *Journal of the Operational Research Society*, 46, 887-891.
64. Drezner Z. and G.O. Wesolowsky (1995) "Location on a One-Way Rectilinear Grid," *Journal of the Operational Research Society*, 46, 735-746.
65. Drezner Z. and E. Erkut (1995) "Solving the Continuous p-Dispersion Problem Using Non-Linear Programming," *Journal of the Operational Research Society*, 46, 516-520.
66. Drezner Z. (1989) "Stochastic Analysis of the Weber Problem on the sphere," *Journal of the Operational Research Society*, 40, 1137-1144.
67. Drezner Z. and G.O. Wesolowsky (1989) "Location of an Obnoxious Route," *Journal of the Operational Research Society*, 40, 1011-1018.
68. Drezner Z. (1987) "Heuristic Solution Methods for Two Location Problems with Unreliable Facilities," *Journal of the Operational Research Society*, 38, 509-514.
69. Drezner Z. and K.P. Anklasaria (1986) "A Multivariate Approach to Estimating the Completion Time for PERT Networks," *The Journal of the Operational Research Society*, 37, 811-815.
70. Drezner Z. (1985) "A Solution to the Weber Location Problem on the Sphere," *Journal of the Operational Research Society*, 36, 333-334.
71. Drezner Z. (1984) "The p-Center Problem - Heuristic and Optimal Algorithms," *Journal of the Operational Research Society*, 35, 741-748.
72. Drezner Z. (1979) "Bounds on the Optimal Location to the Weber Problem Under Conditions of Uncertainty," *Journal of the Operational Research Society*, 30, 923-931.

73. Drezner Z. and G.O. Wesolowsky (1978) "Facility Location on a Sphere," *Journal of the Operational Research Society*, 29, 997-1004.
74. Drezner Z. and G.O. Wesolowsky (1978) "A New Method for the Multifacility Minimax Location Problem," *Journal of the Operational Research Society*, 29, 1095-1101.

#### **Papers Published in *Naval Research Logistics***

75. Drezner Z., G.O. Wesolowsky, and T. Drezner (2004) "The Gradual Covering Problem," *Naval Research Logistics*, 51, 841-855.
76. Berman O., Z. Drezner, and G.O. Wesolowsky (2002) "The Collection Depots Location Problem on Networks," *Naval Research Logistics*, 49, 15-24.
77. Drezner Z. and S. Salhi (2002) "Using Hybrid Metaheuristics for the One-Way and Two-way Network Design Problem," *Naval Research Logistics*, 49, 449-463.
78. Drezner T. and Z. Drezner (1997) "Replacing Discrete Demand with Continuous Demand in a Competitive Facility Location Problem," *Naval Research Logistics*, 44, 81-95.
79. Drezner Z. and G.O. Wesolowsky (1991) "Facility Location When Demand is Time Dependent," *Naval Research Logistics*, 38, 763-777.
80. Pasternack B.A. and Z. Drezner (1991) "Optimal Inventory Policies for Substitutable Commodities," *Naval Research Logistics*, 38, 221-240.
81. Drezner Z., S. Schaible and D. Simchi-Levi (1990) "A Queuing-Location Problem on the Plane," *Naval Research Logistics*, 37, 929-935.
82. Drezner Z. (1988) "Location Strategies for Satellites' Orbits," *Naval Research Logistics*, 35, 503-512.
83. Drezner Z. (1987) "On the Rectangular p-Center Problem," *Naval Research Logistics Quarterly*, 34, 229-234.
84. Drezner Z. (1986) "Location of Regional Facilities," *Naval Research Logistics Quarterly*, 33, 523-529.
85. Drezner Z. (1985) "Sensitivity Analysis of the Optimal Location of a Facility," *Naval Research Logistics Quarterly*, 32, 209-224.
86. Drezner Z., G. Steiner and G.O. Wesolowsky (1985) "One-Facility Location with Rectilinear Tour Distances," *Naval Research Logistics Quarterly*, 32, 391-405.
87. Drezner Z. and G.O. Wesolowsky (1983) "Minimax and Maximin Facility Location Problems on a Sphere," *Naval Research Logistics Quarterly*, 30, 305-312.
88. Drezner Z. and G.O. Wesolowsky (1980) "Optimal Location of a Facility Relative to Area Demands," *Naval Research Logistics Quarterly*, 27, 199-206.

#### **Papers Published in Other Refereed Journals**

89. Drezner T., Z. Drezner, and J. Guyse "Equitable Service by a Facility: Minimizing the Gini Coefficient," *Computers and Operations Research*, accepted for publication.

90. Amar L., A. Barak, Z. Drezner, and I. Peer "Randomized Gossip Algorithms for Maintaining a Distributed Bulletin Board with Guaranteed Age Properties," *Concurrency and Computation: Practice and Experience*, accepted for publication.
91. Drezner Z. and S. Nickel "Constructing a DC Decomposition for Ordered Median Problems," *Journal of Global Optimization*, in press.
92. Berman O., T. Drezner, Z. Drezner, and G.O. Wesolowsky (2009) "A Defensive Maximal Covering Problem on a Network," *International Transactions on Operational Research*, 16, 69-86.
93. Drezner Z. "Random Selection from a Stream of Events," *Communications of the ACM*, accepted for publication.
94. Berman O., Z. Drezner, A. Tamir, and G.O. Wesolowsky "Optimal Location with Equitable Loads," *Annals of Operations Research*, in press.
95. Drezner T., Z. Drezner, and C.H. Scott (2009) "Location of a Facility Minimizing Nuisance to or from a Planar Network," *Computers and Operations Research*, 36, 135-148.
96. Drezner Z. "On the Convergence of the Generalized Weiszfeld Algorithm," *Annals of Operations Research*, in press.
97. Berman O., Z. Drezner, and G.O. Wesolowsky (2009) "The Maximal Covering Problem with Some Negative Weights," *Geographical Analysis*, 41, 30-42.
98. Farahani R. Z., Z. Drezner, and N. Asgari "Single Facility Location and Relocation Problem with Time Dependent Weights and Discrete Planning Horizon," *Annals of Operations Research*, accepted for publication.
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### **Refereed Book Chapters**

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### **Conference Presentations and Refereed Proceedings**

1. "Covering Continuous Demand in the Plane," with A. Suzuki, *National INFORMS Conference*, Washington DC, October, 2008. (invited paper)
2. "A Cover Based Competitive Location Model," with T. Drezner and P. Kalczynski, *National INFORMS Conference*, Washington DC, October, 2008. (invited paper)
3. "Locating Base Stations for Mobile Servers," with T. Drezner, *14<sup>th</sup> Americas Conference on Information Systems*, Toronto, Canada, August, 2008, 1-7. (refereed proceedings).
4. "On the Range of Tabu Tenure in Solving Quadratic Assignment Problems," with G. Marcoulides, *4th International Conference on Computer Science and Information Systems*, Athens, Greece, July, 2008. (invited paper).
5. "Extensions to Cover Location Problems," *ISOLDE XI Conference*, Santa Barbara, CA, June, 2008. (Keynote Presentation)
6. "Constructing a DC Decomposition for Ordered Median Problems," with S. Nickel, *ISOLDE XI Conference*, Santa Barbara, CA, June, 2008. (Invited Paper)
7. "Location of a Facility Selling Goods," with C. Scott, *ISOLDE XI Conference*, Santa Barbara, CA, June, 2008. (Invited Paper)
8. "Location of a Facility Minimizing Nuisance to or from a Planar Network," with T. Drezner and C.H. Scott, *18<sup>th</sup> International Workshop on Urban Operations Research*, Nanzan University, Seto, Japan, December, 2007.
9. "The Lorenz Curve in Location Analysis," with T. Drezner and J. Guyse, *National INFORMS Conference*, Seattle, November, 2007. (invited paper)
10. "Solving the Ordered One-Median Problem in the Plane," with S. Nickel, *National INFORMS Conference*, Seattle, November, 2007. (invited paper)
11. "The Maximal Covering Problem with Some Negative Weights," with O. Berman and G.O. Wesolowsky, *INFORMS International Meeting*, Puerto Rico, July 2007.
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13. "Location of a Facility in a Planar Network," with T. Drezner, *Proceedings of the 34<sup>th</sup> Southwestern Decision Science Institute Conference*, San Diego, March, 2007, 795-804.
14. "Improved Heuristics to Solving the Golf Scramble Problem," *19<sup>th</sup> Annual CSU – Production and Operations Management Association Conference*, February, 2007, (invited paper).
15. "Locating Multiple Facilities in a Competitive Environment," with T. Drezner and A. Suzuki, *National INFORMS Conference*, Pittsburgh, November 2006, (invited paper).
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  18. "The Variable Radius Covering Problem," with O. Berman, D. Krass and G.O. Wesolowsky, *National INFORMS Conference*, Pittsburgh, November 2006, (invited paper).
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  20. "Locating a Service Facility with Some Unserviced Demand," with C.H. Scott, *National INFORMS Conference*, San Francisco, November 2005 (invited paper).
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  22. "The Multiple Server Location-Allocation Problem with Fixed Cost" with O. Berman and R. Aboolian, *National INFORMS Conference*, San Francisco, November 2005 (invited paper).
  23. "Gender Specific Genetic Algorithms" with T. Drezner *Proceedings of the 34<sup>th</sup> Western Decision Science Institute*, Vancouver, Canada, March, 2005, 411-413 (refereed paper).
  24. "Multiple Facilities Location in the Plane Using the Gravity Model," with T. Drezner, *National INFORMS Meeting*, Denver, CO, October, 2004 (invited paper).
  25. "Experiments with Hybrid Genetic Algorithms for the QAP," *National INFORMS Meeting*, Denver, CO, October, 2004 (invited paper).
  26. "The Multiple Server Location Problem," with O. Berman, *National INFORMS Meeting*, Denver, CO, October, 2004 (invited paper).
  27. "Optimal Covering with Disks of Variable Radii and Fixed Centers," with A. Suzuki, *Proceedings of the International Workshop on Urban Operations Research*, Nanzan University, Seto, Japan, November, 2003, 34-35 (invited paper).
  28. "Various Attempts at Solving a Very Difficult 20-blade Turbine Balancing Problem," with P. Hahn, D. Choi, and V-D Cung, *INFORMS National Meeting*, Atlanta, GA, October, 2003 (invited paper).
  29. "The p-median Problem Revisited," with T. Drezner, *INFORMS National Meeting*, Atlanta, GA, October, 2003 (invited paper).
  30. "Optimal Location with Equity," with O. Berman and G.O. Wesolowsky, *INFORMS National Meeting*, Atlanta, GA, October, 2003 (invited paper).
  31. "A Probabilistic One-Center Location Problem on a Network," with O. Berman, *EURO/INFORMS Joint International Meeting*, Istanbul, Turkey, July, 2003 (invited paper).
  32. "The Gradual Covering Problem," with G.O. Wesolowsky and T. Drezner, *Proceedings of the 33<sup>rd</sup> Annual meeting of the Decision Sciences Institute*, San Diego, California, November 2002, 1583-1588 (refereed paper).
  33. "An Efficient Genetic Algorithm for the p-Median Problem," with O. Alp and E. Erkut,

- INFORMS National Conference*, San Jose, CA, November 2002 (invited paper).
34. "The Gradual Covering Decay Location Problem on Networks," with O. Berman and D. Krass, *INFORMS National Conference*, San Jose, CA, November 2002 (invited paper).
  35. "The Gradual Covering Problem," with T. Drezner and G.O. Wesolowsky, *ISOLDE 9*, Fredericton, New Brunswick, Canada, June 2002 (invited paper).
  36. "The Big Triangle Small Triangle method for Solving Non-Convex Location," with A. Suzuki, *ISOLDE 9*, Fredericton, New Brunswick, Canada, June 2002 (invited paper).
  37. "The Gradual Covering Decay Location Problem on Networks," with O. Berman and D. Krass, *CORS conference*, Toronto, June 2002 (invited paper).
  38. "Robust Heuristic Algorithms for the Quadratic Assignment Problem," *Mathematical Methods in Manufacturing and Logistics*, Mathematisches Forschungsinstitut, Oberwolfach, Germany, December 2001 (invited paper).
  39. "A New Genetic Algorithm for the Quadratic Assignment Problem," *Proceedings of the 32<sup>nd</sup> National DSI Meeting*, San Francisco, California, November, 2001, 1256 (refereed paper).
  40. "A Threshold Satisfying Competitive Location Model," with T. Drezner and S. Shiode, *Proceedings of the 32<sup>nd</sup> National DSI Meeting*, San Francisco, California, November, 2001, 285-287 (refereed paper).
  41. "A Powerful Genetic Algorithm for the Quadratic Assignment Problem," *National INFORMS Conference*, Miami Beach, Florida, November, 2001 (invited paper).
  42. "On the Optimal Location of a Central Warehouse," with C.H. Scott and J.S. Song, *National INFORMS Conference*, Miami Beach, Florida, November, 2001 (invited paper).
  43. "Determining the Optimal Allocation of Servers to a Tandem Queue using a Greedy Algorithm," with B.A. Pasternack, *National INFORMS Conference*, Miami Beach, Florida, November, 2001.
  44. "The Expropriation Location Problem," with O. Berman and G.O. Wesolowsky *EURO 2001 Conference*, Rotterdam, The Netherlands, July, 2001 (invited paper).
  45. "A Threshold Satisfying Competitive Location Model," with T. Drezner and S. Shiode, *European Working Group on Locational Analysis*, Barcelona, Spain, December, 2000 (invited paper).
  46. "Solving a Design-Location Problem Using Metaheuristics," with G. O. Wesolowsky, *European Working Group on Locational Analysis*, Barcelona, Spain, December, 2000 (invited paper).
  47. "The Partial Median Problem," with O. Berman and G. O. Wesolowsky, *National INFORMS Conference*, San Antonio, Texas, November, 2000 (invited paper).
  48. "Using Genetic Algorithms for the Solution of the Quadratic Assignment Problem," *National INFORMS Conference*, San Antonio, Texas, November, 2000 (invited paper).
  49. "A Threshold Satisfying Competitive Location Model," with T. Drezner and S. Shiode, *National INFORMS Conference*, San Antonio, Texas, November, 2000 (invited paper).

50. "Sensitivity Analysis to the Value of  $p$  to the  $\ell_p$  Distance Weber Problem," with G.O. Wesolowsky, *National INFORMS Conference*, Salt Lake City, May, 2000 (invited paper).
51. "On the Attractiveness of Shopping Malls," with T. Drezner, *Proceedings of the 29th Western DSI Conference*, Kapalua, Maui, Hawaii, April, 2000, 766-768 (refereed paper).
52. "Playing Blackjack the Markovian way," with R. Dear, *Proceedings of the 29th Western DSI Conference*, Kapalua, Maui, Hawaii, April, 2000, 901-908 (refereed paper).
53. "On the Collection Depots Location Problem," with G.O. Wesolowsky, *National INFORMS Conference*, Philadelphia, November 1999 (invited paper).
54. "Unscrambling the Golf Scramble," with R. Dear *Proceedings of the 15th National Conference of the Australian Society for Operations Research*, Gold Coast, Australia, July 1999, 405-418 (refereed paper).
55. "On the Collection Depots Location Problem," with G.O. Wesolowsky, *ISOLDE VIII Conference*, Coimbra, Portugal, June 1999 (invited paper).
56. "Assessing the Attractiveness of Retail facilities," with T. Drezner, *ISOLDE VIII Conference*, Coimbra, Portugal, June 1999 (invited paper).
57. "Applying the Gravity Rule to the Airline Hub Problem," with T. Drezner, *ISOLDE VIII Conference*, Coimbra, Portugal, June 1999 (invited paper).
58. "The Maximum Normal Probability Covering Problem," with G.O. Wesolowsky, *Optimization Days*, Montreal, Quebec, Canada, May 1999 (invited paper).
59. "Routing and Location on a Network with Hazardous Threats," with O. Berman and G.O. Wesolowsky, *National INFORMS Conference*, Cincinnati, Ohio, May 1999 (invited paper).
60. "Multifacility location with Groups of Demand Points on a Network," with O. Berman and G.O. Wesolowsky, *National INFORMS Conference*, Cincinnati, Ohio, May 1999 (invited paper).
61. "Applying the Gravity Rule to the Airline Hub Problem," with T. Drezner, *National INFORMS Conference*, Cincinnati, Ohio, May 1999 (invited paper).
62. "Financial Applications of the Tabu Search Variable Selection Model," with G.A. Marcoulides and M. Stohs, *Midwest Financial Association Meeting*, Nashville, March 1999 (refereed paper).
63. "Methods for Comparing the Attractiveness of Shopping Centers," with T. Drezner and G.A. Marcoulides, *Proceedings of the DSI meeting*, Las Vegas, November, 1998, Vol.2, 1090-1092 (refereed paper).
64. "Location Models with Groups of Demand Points," with G.O. Wesolowsky, *National INFORMS Conference*, Seattle, Washington, October, 1998 (invited paper).
65. "Location on a Network with Groups of Demand Points," with O. Berman and G.O. Wesolowsky, *National INFORMS Conference*, Seattle, Washington, October, 1998 (invited paper).
66. "Design-Location Problems," with G.O. Wesolowsky, *National INFORMS Conference*,



- Seattle, Washington, October, 1998 (invited paper).
67. "Selecting an Optimum Configuration of One-Way and Two-Way Routes Using Tabu Search," with S. Salhi *Proceedings of the RIMS Symposium on Theory and Applications of Mathematical Optimization*, Kyoto, Japan, July, 1998, 203-215 (invited paper).
  68. "Tabu Search Methods in Maximum Normal Probability Covering Problems," with G.O. Wesolowsky, *National INFORMS Conference*, Montreal, May, 1998 (invited paper).
  69. "Tabu Search Model Selection in Multiple Regression Analysis," with G.A. Marcoulides and S. Salhi, *Proceedings of the Twenty Seventh Western DSI Conference*, Reno, Nevada, April, 1998, 488-490 (refereed paper, best paper award).
  70. "A Procedure for Setting Cut-Off Scores," with G.O. Wesolowsky and W. Wiesner, *Second Assessment Conference*, Fullerton, CA, March, 1998 (invited paper).
  71. "On the Feasible Points to the Weber Problem with Uncertain Weights," with Carlton Scott, *National INFORMS Conference*, Dallas, Texas, October, 1997 (invited paper).
  72. "Estimating the Attractiveness of Retail Facilities," with T. Drezner, *National INFORMS Conference*, Dallas, Texas, October, 1997 (invited paper).
  73. "Quantifying the Bullwhip Effect in a Simple Supply Chain: The Impact of Forecasting and Lead Times," with D. Simchi Levi and J. Ryan, *National INFORMS Conference*, San Diego, May 1997 (invited paper).
  74. "Location of Retail facilities Under Conditions of Uncertainty," with T. Drezner, *National INFORMS Conference*, San Diego, May 1997 (invited paper).
  75. "Insights into Planar and Spherical Minimax Location," *National INFORMS Conference*, San Diego, May 1997 (invited paper).
  76. "Decision Analysis in Facility Location," *National INFORMS Conference*, San Diego, May 1997 (invited paper).
  77. "A Comparison Between Various Approaches for the Calculation of Market Share," with T. Drezner, *Proceedings of the Twenty Sixth Western DSI Conference*, Kamuela, Hawaii, March, 1997, 677-679 (refereed paper).
  78. "A Procedure for Detecting Pattern Clustering in Measurement Designs," with G.A. Marcoulides, *Ninth International Objective Measurement Workshop*, University of Chicago, March, 1997 (invited paper).
  79. "Comparison Between Various Approaches for the Calculation of Market Share," with T. Drezner, *National INFORMS Conference*, Atlanta, November 1996 (invited paper).
  80. "Location of Retail Facilities Under Conditions of Uncertainty," with T. Drezner, *National INFORMS Conference*, Atlanta, November 1996 (invited paper).
  81. "Converting an Area to Discrete Points," *Ninth European Working Group on Locational Analysis*, Birmingham, England, September 1996 (invited paper).
  82. "On the Best Location of Signal Detectors," with G.O. Wesolowsky, *International Symposium on Locational Decisions (ISOLDE VII) Conference*, Edmonton, Alberta,

- Canada, June 1996 (invited paper).
83. "Location of Competitive Facilities in Anticipation of Future Competition," with T. Drezner, *International Symposium on Locational Decisions (ISOLDE VII) conference*, Edmonton, Alberta, Canada, June 1996 (invited paper).
  84. "On the Circle Closest to a Set of Points," with G.O. Wesolowsky and S. Steiner, *Optimization Days Conference*, Montreal, Canada, May 1996 (invited paper).
  85. "Location of an Obnoxious Facility Using a Triangulation Algorithm," with A. Suzuki, *INFORMS National Conference*, Washington, DC, May 1996 (invited paper).
  86. "The Uncapacitated Facility Location Problem with Demand Dependent Setup and Service Costs," with I. Averbakh, O. Berman, and G.O. Wesolowsky, *INFORMS National Conference*, Washington, DC, May 1996 (invited paper).
  87. "Deterministic Hierarchical Substitution Inventory Models," with H. Gurnani, *INFORMS National Meeting*, Washington, DC, May 1996 (invited paper).
  88. "Location of Retail Facilities Under Conditions of Uncertainty," with T. Drezner, *Proceedings of the Western Decision Science Institute Conference*, 354-356, Seattle, Washington, April 1996 (refereed paper).
  89. "The Impact on Optimal Facility Location of Using Discrete Demand Instead of Continuous Demand," with T. Drezner, *National INFORMS Conference*, New Orleans, October 1995 (invited paper).
  90. "Optimal Textbook Pricing Policies for a University Bookstore," with B.A. Pasternack and Z. Goldstein, *National INFORMS Conference*, New Orleans, October 1995.
  91. "Location-Allocation with Demand-Dependent Costs," with G.O. Wesolowsky, *Eighth European Working Group on Locational Analysis*, Lambrecht, Germany, September 1995 (invited paper).
  92. "Computing Lower Bounds for the QAP with an Interior Point Method," with M.G.C. Resende and K.G. Ramakrishnan, *International INFORMS Conference*, Singapore, June 1995 (invited paper).
  93. "On the Continuous p-Hub Location Problem," with A. Suzuki and M. Sasaki, *International INFORMS Conference*, Singapore, June 1995 (invited paper).
  94. "On the Logit Approach to Competitive Facility Location," with G.O. Wesolowsky and T. Drezner, *International INFORMS Conference*, Singapore, June 1995 (invited paper).
  95. "Replacing Discrete Demand with Continuous Demand: The Impact on Optimal Facility Location," with T. Drezner *National INFORMS Conference*, Los Angeles, April 1995 (invited paper).
  96. "Location-Allocation with Continuously Distributed Demands and Demand-Dependent Costs," with G.O. Wesolowsky *National INFORMS Conference*, Los Angeles, April 1995 (invited paper).
  97. "On Branch and Bound Methods for the p-Hub Location Problem," with A. Suzuki and M.

- Sasaki, *National INFORMS Conference*, Los Angeles, April 1995 (invited paper).
98. "A Method for Analyzing Performance Assessments," with G.A. Marcoulides, *Eighth International Objective Measurement Workshop*, University of California, Berkeley, April 1995.
  99. "Location of Multiple Retail Facilities with a Limited Budget," with T. Drezner, *Proceedings of the 24th Western DSI*, 491-493, San Francisco, April 1995 (refereed paper).
  100. "Earthquake Predictions Using Linear Regression," with Taly Drezner, *Proceedings of the 24th Western DSI*, 690-692, San Francisco, April 1995 (refereed paper).
  101. "Dynamic Facility Location and the Progressive p-Median Problem," *National ORSA/TIMS Conference*, Detroit, MI, October, 1994 (invited paper).
  102. "On the Airline Hub and Spoke System," with A. Suzuki and M. Sasaki, *Proceedings of the 29th Summer Seminar on Operations Research*, Shiga-Kogen, Japan, 142-147, August, 1994 (refereed paper).
  103. "Computing Lower Bounds for the Quadratic Assignment Problem with an Interior Point Algorithm for Linear Programming," with M.G.C. Resende and K.G. Ramakrishnan, *15th International Symposium on Mathematical Programming*, Ann Arbor, MI, August, 1994 (invited paper).
  104. "Obnoxious Facility Location Outside a Planar Network," with G.O. Wesolowsky, *Canadian Operations Research Society - Optimization Days Conference*, Montreal, Canada, May 1994 (invited paper).
  105. "Queuing Location Problems," with T. Jefferson and C. Scott, *National TIMS/ORSA Conference*, Boston, April 1994 (invited paper).
  106. "On the Airline Hub and Spoke System," with A. Suzuki and M. Sasaki, *National TIMS/ORSA Conference*, Boston, April 1994 (invited paper).
  107. "On a Location Problem of Relay Points in a Logistics System," with M. Sasaki, A. Suzuki, and M. Nakai, *The National Operations Research Society of Japan Conference*, Nagoya, Japan, May 1994.
  108. "Location on a One-Way Transportation Network," with G.O. Wesolowsky, *National ORSA/TIMS Conference*, Phoenix, AZ, October, 1993 (invited paper).
  109. "Finding the Circle or Rectangle Containing the Minimum Weight of Points," with G.O. Wesolowsky, *International Symposium on Locational Decisions (ISOLDE VI) Conference*, Chios, Greece, June 1993 (invited paper).
  110. "Recent Results in Competitive Facility Location," With T. Drezner *International Symposium on Locational Decisions (ISOLDE VI) Conference*, Chios, Greece, June 1993 (invited tutorial).
  111. "Optimal Axis Orientation for Rectilinear Location Problems," with G.O. Wesolowsky, *National ORSA/TIMS Conference*, Chicago, IL, May, 1993 (invited paper).
  112. "On the p-Center problem in a Square," with A. Suzuki, *Operations Research Society of*

- Japan Conference*, Kyoto, Japan, March, 1993 (invited paper).
113. "Optimal Axis Orientation for Rectilinear Minisum and Minimax Location," with G.O. Wesolowsky, *National ORSA/TIMS Conference*, San-Francisco, CA, November 1992 (invited paper).
  114. "Competitive Facility Location in the Plane," *VI Congreso Latinoamericano de Investigacion de Operaciones*, Mexico City, Mexico, October 1992 (invited paper).
  115. "Location on a One-Way Rectilinear Grid," with G. O. Wesolowsky, *Canadian Operations Research Society National Conference*, Toronto, Canada, June 1992 (invited paper).
  116. "A Procedure for Transforming Points in Multi-Dimensional Space to Two-Dimensional," with George Marcoulides, *Proceedings of the Western DSI Conference*, Reno, Nevada, March 1992 (refereed paper).
  117. "An Overview of Facility Location," *XIV Systems Engineering Conference*, Santiago, Chile, July, 1991 (invited paper).
  118. "New Results on the Weber Problem," with G.O. Wesolowsky, *International TIMS Conference*, Rio De Janeiro, Brazil, July, 1991 (invited paper).
  119. "Competitive Facility Location," with T. Drezner, *International TIMS Conference*, Rio De Janeiro, Brazil, July, 1991 (invited paper).
  120. "Multirelation - A Correlation Among More than Two Variables," *Proceedings of the Western DSI Meeting*, Kauai HI, March 1991, 770-772 (refereed paper).
  121. "On the Conditional p-Median Problem," *Proceedings of the Western DSI Meeting*, Kauai HI, March 1991, 451-453 (refereed paper).
  122. "On the Location of a Retail Facility," with T. Drezner, *National ORSA/TIMS Conference*, Philadelphia, PA, October 1990 (invited paper).
  123. "On the Location of a New Store," with T. Drezner, *Western Academy of Management conference*, Shizuoka Japan, June 1990 (refereed paper).
  124. "The Facility Location Problem with Limited Distances," with A. Mehrez and G.O. Wesolowsky, *International Symposium on Locational Decisions (ISOLDE V) Conference*, Fullerton CA, June 1990 (invited paper).
  125. "On the Conditional p-Median Problem," *National ORSA/TIMS Conference*, Las Vegas, NV, May 1990 (invited paper).
  126. "Location of an Obnoxious Route," with G.O. Wesolowsky, *Thirty-Sixth National Meeting of the Regional Science Association*, Santa Barbara CA, November 1989 (invited paper).
  127. "Computational Experience with Multi-Robots Intelligent Assembly Plan Problems," with S.Y. Nof, *National ORSA/TIMS Conference*, Vancouver Canada, May 1989 (invited paper).
  128. "The Videotape Rental Model: An Extended Newsboy Problem," with B.A. Pasternack, *National ORSA/TIMS Conference*, Vancouver Canada, May 1989.
  129. "Spherical Approximations for Minimax Location Problems," *National ORSA/TIMS*

- Conference*, Vancouver Canada, May 1989 (invited paper).
130. "A Queuing-Location Problem on the Plane," with D. Simchi-Levi and S. Schaible, *National ORSA/TIMS Conference*, Vancouver Canada, May 1989 (invited paper).
  131. "Facility Location when Demand is Time Dependent," with G.O. Wesolowsky, *National ORSA/TIMS Conference*, Vancouver Canada, May 1989 (invited paper).
  132. "The Weber Problem on the Plane with Some Negative Weights," with G.O. Wesolowsky, *Thirty Fifth National Meeting of the Regional Science Association*, Toronto Canada, November 1988 (invited paper).
  133. "Stochastic Analysis of the Weber Problem on the Sphere," *National ORSA/TIMS Conference*, Denver CO, October 1988 (invited paper).
  134. "Facility Location When Demand is Time Dependent," with G.O. Wesolowsky, *Canadian Operational Research Society Conference*, Montreal Canada, May 1988 (invited paper).
  135. "Channel Coordination when Demand is Price Sensitive," with B.A. Pasternack, *National TIMS/ORSA Conference*, Washington DC, April 1988.
  136. "On Conditional p-Center Problems," *National ORSA/TIMS Conference*, St. Louis MO, October 1987 (invited paper).
  137. "Extensions of the Multi-Robot Assembly Plan Problem Models," with S.Y. Nof, *National ORSA/TIMS Conference*, St. Louis MO, October 1987 (invited paper).
  138. "Optimal Inventory Policies for Substitutable Commodities," with B.A. Pasternack, *National ORSA/TIMS Conference*, St. Louis MO, October 1987.
  139. "Location Strategies for Satellites' Orbits," *International Symposium on Locational Decisions (ISOLDE IV) Conference*, Namur, Belgium, June 1987 (invited paper).
  140. "Competitive Location in the Plane," with E. Zemel, *National TIMS/ORSA Conference*, New Orleans LA, May 1987 (invited paper).
  141. "Optimal Control of a Linear Trend Process with Quadratic Loss," with G.O. Wesolowsky, *National TIMS/ORSA Conference*, New Orleans LA, May 1987 (invited paper).
  142. "The Robotic Assembly Plan Problem with Multiple Robots," with S. Nof, *National TIMS/ORSA Conference*, New Orleans LA, May 1987 (invited paper).
  143. "Location with Asymmetric Location Distances," with G.O. Wesolowsky, *National ORSA/TIMS Conference*, Miami FL, October 1986 (invited paper).
  144. "A Discount Pricing Model for Inventory Control," with B.A. Pasternack, *National ORSA/TIMS Conference*, Miami FL, October 1986.
  145. "The Complexity of the Exchange Algorithm for Minimax Optimization Problems," *National ORSA/TIMS Conference*, Miami FL, October 1986 (invited paper).
  146. "The Asymmetric Rectilinear Location Problem," with G.O. Wesolowsky, *Canadian Operational Research Society Conference*, Toronto Canada, June 1986 (invited paper).
  147. "Location of Unreliable Facilities," *National TIMS/ORSA conference*, Los Angeles CA,

- April 1986 (invited paper).
148. "Maximizing Seller's profit by Quantity Discount Prices," with G.O. Wesolowsky, *National TIMS/ORSA conference*, Los Angeles CA, April 1986 (invited paper).
  149. "Efficient Algorithms for Routing Information in a Multicomputer System," with A. Barak, *The International Workshop on Distributed Algorithms on Graphs*, Ottawa Canada, August 1985.
  150. "A Search Procedure for Location Problems on the Sphere," with G.O. Wesolowsky, *National ORSA/TIMS Conference*, Dallas TX, November 1984 (invited paper).
  151. "Lower Bounds for the Quadratic Assignment Problem," *International Symposium on Locational Decisions (ISOLDE III) Conference*, Boston MA, June 1984 (invited paper).
  152. "A Location Problem with Tours," with G. Steiner and G.O. Wesolowsky, *International Symposium on Locational Decisions (ISOLDE III) Conference*, Boston MA, June 1984 (invited paper).
  153. "The Rectangular Tour Location Problem," with G. Steiner and G.O. Wesolowsky, *National ORSA/TIMS Conference*, Orlando FL, November 1983 (invited paper).
  154. "The Robotic Assembly Plan Problem With Dynamic Part Feeding," with S. Nof, *National ORSA/TIMS Conference*, Orlando FL, November 1983 (invited paper).
  155. "Minimizing the Range of Weighted Distances in Facility Location," with J. Thisse and G.O. Wesolowsky, *National ORSA/TIMS Conference*, Chicago IL, April 1983 (invited paper).
  156. "Optimal Bin Picking and Insertion Plans for Assembly Robots," with S. Nof, *National ORSA/TIMS Conference*, Chicago IL, April 1983 (invited paper).
  157. "A Method for Estimating the State of a System Through Times-Series Nominal Data Analysis," with K.P. Anklasaria, *Proceedings of the National DSI Meeting*, San Francisco CA, November 1982, Vol.2, 405 (refereed paper).
  158. "Multi-Relation - A Correlation Among More Than Two Variables," with K.P. Anklasaria, *Proceedings of the National DSI Meeting*, San Francisco CA, November 1982, Vol.2, 359-360 (refereed paper).
  159. "Location With Equity Objective," with G.O. Wesolowsky and J.-F. Thisse, *National ORSA/TIMS Conference*, San Diego CA, October 1982 (invited paper).
  160. "Fast Algorithms for the Round Trip Location Problem," *National ORSA/TIMS Conference*, Detroit MI, April 1982 (invited paper).
  161. "One Dimensional Obnoxious p-Center Problem," with G.O. Wesolowsky, *National ORSA/TIMS Conference*, Houston TX, October 1981 (invited paper).
  162. "The Location of an Obnoxious Facility with Rectangular Distances," with G.O. Wesolowsky, *Proceedings of the International Symposium on Locational Decisions (ISOLDE 81 Meeting)*, Skodsborg Denmark, June 1981, 111-122 (invited paper).
  163. "Sensitivity Analysis of the Optimal Location of a Facility," *Proceedings of the*

*International Symposium on Locational Decisions (ISOLDE-81 Meeting)*, Skodsborg Denmark, June 1981, 93-109 (invited paper).

164. "Constrained Location Problems in the Plane and on a Sphere," *National ORSA/TIMS Conference*, Toronto, Canada, May 1981 (invited paper).
165. "On the Multifacility Location Problem in the Plane," with G.O. Wesolowsky, *National ORSA/TIMS Conference*, Colorado Springs CO, November 1980 (invited paper).
166. "The p-Center Problem - Heuristic and Optimal Algorithms," *National ORSA/TIMS Conference*, Colorado Springs CO, November 1980 (invited paper).
167. "DISCON - A New Method for the Layout Problem," *National ORSA/TIMS Conference*, Washington D.C., May 1980 (invited paper).
168. "Optimizing N-Stage Production/Inventory Systems by Transporting Different Number of Equal-Sized Batches at Various Stages," with A.Z. Szendrovits, *National ORSA/TIMS Conference*, Washington D.C., May 1980 (invited paper).
169. "Computational Experience with the Russian Method for Linear Programming," *Polynomial-Time Algorithm Workshop*, New York NY, February 1980 (invited paper).
170. "Some Results in Minimax Location on a Sphere," with G.O. Wesolowsky, *International TIMS Conference*, Honolulu HI, June 1979.
171. "Constrainable Varying Lot Sizes and Batch Transshipment in Multi Stage Production/Inventory System," with A.Z. Szendrovits and G.O. Wesolowsky, *Multilevel Production/Inventory Systems: Theory and Practice*, West Lafayette IN, May 1979 (invited paper).
172. "Toward a Comprehensive Model for N-Stage Production/ Inventory System," with A.Z. Szendrovits and G.O. Wesolowsky, *National ORSA/TIMS Conference*, Los Angeles CA, November 1978.
173. "Optimum Location Probabilities and the EVPI in Single Facility Problems," with G.O. Wesolowsky, *National ORSA/TIMS Conference*, Atlanta GA, November 1977.

### **Invited Seminars**

174. "Extensions to Covering Problems," Joseph L. Rotman School of Management, University of Toronto, October, 2006.
175. "The Multiple Server Location Problem," with O. Berman, OR/MS Day, University of Southern California, June 2005.
176. "Gender Specific Genetic Algorithms," with T. Drezner, OR/MS Day, University of Southern California, June 2005.
177. "Using Metaheuristics to Solve Location Problems," School of Social Ecology, University of California, Irvine, January, 2003.
178. "Solving the Huff Competitive Location Model Optimally," with T. Drezner, University of Kaiserslautern, Kaiserslautern, Germany, July, 2001.

179. "A Threshold Satisfying Competitive Location Model," with T. Drezner and S. Shiode, *OR/MS Day*, University of Southern California, June 2001.
180. "Using Metaheuristics for the One-Way and Two-Way Network Design Problem," with S. Salhi, Conference on Operations Research and Operations Management in the Information Technology Era, UCI, Irvine, June 2000.
181. "How to Assess the Attractiveness of Shopping Malls," with T. Drezner, CSUF Economics Department, April 2000.
182. "Location of Retail Facilities under Conditions of Uncertainty," with T. Drezner, London School of Economics, London, England, July 1999.
183. "Tabu Search Model Selection in Multiple Regression Analysis," with G.A. Marcoulides and S. Salhi, University of Birmingham, Birmingham, England, July 1999.
184. "Location of Retail Facilities under Conditions of Uncertainty," with T. Drezner, University of Kaiserslautern, Kaiserslautern, Germany, July 1999.
185. "Tabu Search Model Selection in Multiple Regression Analysis," with G.A. Marcoulides and S. Salhi, University of Liverpool, Liverpool, England, July 1999.
186. "Location of Retail Facilities under Conditions of Uncertainty," with T. Drezner, University of Lancaster, Lancaster, England, July 1999.
187. "Tabu Search Model Selection in Multiple Regression Analysis," with G.A. Marcoulides and S. Salhi, Economics Department, California State University, Fullerton, May 1999.
188. "Tabu Search Techniques," Operations Research Workshop, Nanzan University, Nagoya, Japan, July 1998.
189. "Decision Analysis in Facility Location," with J. Guyse Operations Research/Operations Management Day, USC, Los-Angeles, May 1998.
190. "Tabu Search Model Selection in Multiple Regression Analysis," with G.A. Marcoulides and S. Salhi, Finance Department, California State University, Fullerton, March 1998.
191. "Tabu Search Model Selection in Multiple Regression Analysis," with G. Marcoulides and S. Salhi, University of Auckland, Auckland, New Zealand, August 1997.
192. "Facility Location, Competitive Facility Location, and the Stackelberg Equilibrium Problem," with T. Drezner, University of Auckland, Auckland, New Zealand, August 1997.
193. "Designing a One-way and Two-way Road System," with S. Salhi, Operations Research/Operations Management Symposium, Irvine California, June 1997.
194. "Review of the Location of a Retail Facility," with T. Drezner, Operations Research Workshop, Nanzan University, Nagoya, Japan, June 1995.
195. "Competitive Facility Location in the Plane," with T. Drezner, Research Symposium in Operations Research and Operations Management, UCI, Irvine, CA, May 1994.
196. "Recent Developments in Competitive Facility Location," Management Seminar, The Hong Kong University of Science and Technology, Hong Kong, March 1993.



197. "Recent Advances in Location Theory," University of California, Irvine, Graduate School of Management Seminar, January 1993.
198. "Facility Location Using Alternative Approaches to Voronoi Diagrams," Operations Research Workshop, Nanzan University, Nagoya, Japan, October 1992.
199. "Location Theory - An Overview," ORSA/TIMS Orange County Meeting, May 1988.