# Zvi Drezner

## List of Publications by Citations



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|---|---|---|---|
| 74 papers | 1,553 citations | 24 h-index | 36 g-index |
| 74 ext. papers | 1,735 ext. citations | 2.8 avg, IF | 5.29 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 74 | Generalized coverage: New developments in covering location models. *Computers and Operations Research*, **2010**, 37, 1675-1687 | 4.6 | 123 |
| 73 | Solving the multiple competitive facilities location problem. *European Journal of Operational Research*, **2002**, 142, 138-151 | 5.6 | 86 |
| 72 | Recent Advances for the Quadratic Assignment Problem with Special Emphasis on Instances that are Difficult for Meta-Heuristic Methods. *Annals of Operations Research*, **2005**, 139, 65-94 | 3.2 | 75 |
| 71 | Equitable service by a facility: Minimizing the Gini coefficient. *Computers and Operations Research*, **2009**, 36, 3240-3246 | 4.6 | 57 |
| 70 | The multiple server location problem. *Journal of the Operational Research Society*, **2007**, 58, 91-99 | 2 | 56 |
| 69 | A new local search for continuous location problems. *European Journal of Operational Research*, **2014**, 232, 256-265 | 5.6 | 55 |
| 68 | A competitive facility location problem on a tree network with stochastic weights. *European Journal of Operational Research*, **2003**, 149, 47-52 | 5.6 | 52 |
| 67 | A General Global Optimization Approach for Solving Location Problems in the Plane. *Journal of Global Optimization*, **2007**, 37, 305-319 | 1.5 | 48 |
| 66 | The variable radius covering problem. *European Journal of Operational Research*, **2009**, 196, 516-525 | 5.6 | 45 |
| 65 | On the circle closest to a set of points. *Computers and Operations Research*, **2002**, 29, 637-650 | 4.6 | 45 |
| 64 | New heuristic algorithms for solving the planar p-median problem. *Computers and Operations Research*, **2015**, 62, 296-304 | 4.6 | 44 |
| 63 | Optimal location with equitable loads. *Annals of Operations Research*, **2009**, 167, 307-325 | 3.2 | 39 |
| 62 | Validating the Gravity-Based Competitive Location Model Using Inferred Attractiveness. *Annals of Operations Research*, **2002**, 111, 227-237 | 3.2 | 38 |
| 61 | A new heuristic for solving the p-median problem in the plane. *Computers and Operations Research*, **2013**, 40, 427-437 | 4.6 | 37 |
| 60 | Enhancing the performance of hybrid genetic algorithms by differential improvement. *Computers and Operations Research*, **2013**, 40, 1038-1046 | 4.6 | 34 |
| 59 | A cover-based competitive location model. *Journal of the Operational Research Society*, **2011**, 62, 100-113 | 1 | 33 |
| 58 | The facility and transfer points location problem. *International Transactions in Operational Research*, **2005**, 12, 387-402 | 2.9 | 32 |

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| 57 | Strategic competitive location: improving existing and establishing new facilities. *Journal of the Operational Research Society*, **2012**, 63, 1720-1730 | 2 | 29 |
| 56 | Compounded genetic algorithms for the quadratic assignment problem. *Operations Research Letters*, **2005**, 33, 475-480 | 1 | 29 |
| 55 | Solving the ordered one-median problem in the plane. *European Journal of Operational Research*, **2009**, 195, 46-61 | 5.6 | 27 |
| 54 | Discrete cooperative covering problems. *Journal of the Operational Research Society*, **2011**, 62, 2002-2012 | 2 | 26 |
| 53 | New local searches for solving the multi-source Weber problem. *Annals of Operations Research*, **2016**, 246, 181-203 | 3.2 | 25 |
| 52 | A Probabilistic Minimax Location Problem on the Plane. *Annals of Operations Research*, **2003**, 122, 59-70 | 3.2 | 25 |
| 51 | The gravity multiple server location problem. *Computers and Operations Research*, **2011**, 38, 694-701 | 4.6 | 24 |
| 50 | Modelling lost demand in competitive facility location. *Journal of the Operational Research Society*, **2012**, 63, 201-206 | 2 | 23 |
| 49 | Solving scheduling and location problems in the plane simultaneously. *Computers and Operations Research*, **2010**, 37, 256-264 | 4.6 | 23 |
| 48 | The Minimax and Maximin Location Problems on a Network with Uniform Distributed Weights. *IIE Transactions*, **2003**, 35, 1017-1025 | | 21 |
| 47 | The Weber obnoxious facility location model: A Big Arc Small Arc approach. *Computers and Operations Research*, **2018**, 98, 240-250 | 4.6 | 20 |
| 46 | Covering continuous demand in the plane. *Journal of the Operational Research Society*, **2010**, 61, 878-881 | 2 | 20 |
| 45 | Location of a facility minimizing nuisance to or from a planar network. *Computers and Operations Research*, **2009**, 36, 135-148 | 4.6 | 20 |
| 44 | The multiple location of transfer points. *Journal of the Operational Research Society*, **2008**, 59, 805-811 | 2 | 20 |
| 43 | Finding a cluster of points and the grey pattern quadratic assignment problem. *OR Spectrum*, **2006**, 28, 417-436 | 1.9 | 20 |
| 42 | The maximin gradual cover location problem. *OR Spectrum*, **2014**, 36, 903-921 | 1.9 | 19 |
| 41 | The multiple gradual cover location problem. *Journal of the Operational Research Society*, **2019**, 70, 931-940 | 2 | 18 |
| 40 | Incorporating neighborhood reduction for the solution of the planar p-median problem. *Annals of Operations Research*, **2017**, 258, 639-654 | 3.2 | 17 |

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| 39 | Location of a distribution center for a perishable product. *Mathematical Methods of Operations Research*, **2013**, 78, 301-314 | 1 | 15 |
| 38 | The Quintile Share Ratio in location analysis. *European Journal of Operational Research*, **2014**, 238, 166-174 | 3.6 | 15 |
| 37 | Biologically Inspired Parent Selection in Genetic Algorithms. *Annals of Operations Research*, **2020**, 287, 161-183 | 3.2 | 15 |
| 36 | The fortified Weiszfeld algorithm for solving the Weber problem. *IMA Journal of Management Mathematics*, **2015**, 26, 1-9 | 1.4 | 14 |
| 35 | Solving the planar p-median problem by variable neighborhood and concentric searches. *Journal of Global Optimization*, **2015**, 63, 501-514 | 1.5 | 13 |
| 34 | On the convergence of the generalized Weiszfeld algorithm. *Annals of Operations Research*, **2009**, 167, 327-336 | 3.2 | 12 |
| 33 | Exact algorithms for the solution of the grey pattern quadratic assignment problem. *Mathematical Methods of Operations Research*, **2015**, 82, 85-105 | 1 | 10 |
| 32 | A directional approach to gradual cover. *Top*, **2019**, 27, 70-93 | 1.3 | 10 |
| 31 | Multiple obnoxious facilities location: A cooperative model. *IISE Transactions*, **2020**, 52, 1403-1412 | 3.3 | 9 |
| 30 | Mixed planar and network single-facility location problems. *Networks*, **2016**, 68, 271-282 | 1.6 | 9 |
| 29 | Maximizing the minimum cover probability by emergency facilities. *Annals of Operations Research*, **2016**, 246, 349-362 | 3.2 | 8 |
| 28 | Locating multiple facilities using the max-sum objective. *Computers and Industrial Engineering*, **2019**, 129, 136-143 | 6.4 | 7 |
| 27 | Solving planar location problems by global optimization. *Logistics Research*, **2013**, 6, 17-23 | | 7 |
| 26 | Fitting concentric circles to measurements. *Mathematical Methods of Operations Research*, **2014**, 79, 119-133 | 1 | 7 |
| 25 | The planar multifacility collection depots location problem. *Computers and Operations Research*, **2019**, 102, 121-129 | 4.6 | 7 |
| 24 | Continuous covering and cooperative covering problems with a general decay function on networks. *Journal of the Operational Research Society*, **2013**, 64, 1644-1653 | 2 | 6 |
| 23 | Optimizing the Location of a Production Firm. *Networks and Spatial Economics*, **2010**, 10, 411-425 | 1.9 | 6 |
| 22 | Allocation of demand when cost is demand-dependent. *Computers and Operations Research*, **1999**, 26, 1-15 | 4.6 | 6 |

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| 21 | Solving nonconvex nonlinear programs with reverse convex constraints by sequential linear programming. *International Transactions in Operational Research*, **2020**, 27, 1320-1342 | 2.9 | 6 |
| 20 | The continuous grey pattern problem. *Journal of the Operational Research Society*, **2017**, 68, 469-483 | 2 | 5 |
| 19 | On the unboundedness of facility layout problems. *Mathematical Methods of Operations Research*, **2010**, 72, 205-216 | 1 | 5 |
| 18 | The obnoxious facilities planar p-median problem. *OR Spectrum*, **2021**, 43, 577 | 1.9 | 5 |
| 17 | Cooperative Cover of Uniform Demand. *Networks and Spatial Economics*, **2019**, 19, 819-831 | 1.9 | 5 |
| 16 | A location□allocation problem with concentric circles. *IIE Transactions*, **2015**, 47, 1397-1406 | | 4 |
| 15 | Gradual cover competitive facility location. *OR Spectrum*, **2020**, 42, 333-354 | 1.9 | 4 |
| 14 | The wisdom of voters: evaluating the Weber objective in the plane at the Condorcet solution. *Annals of Operations Research*, **2016**, 246, 205-226 | 3.2 | 4 |
| 13 | Solving multiple facilities location problems with separated clusters. *Operations Research Letters*, **2019**, 47, 386-390 | 1 | 4 |
| 12 | A cover based competitive facility location model with continuous demand. *Naval Research Logistics* , **2019**, 66, 565-581 | 1.5 | 4 |
| 11 | Covering Part of a Planar Network. *Networks and Spatial Economics*, **2014**, 14, 629-646 | 1.9 | 4 |
| 10 | A distribution map for the one-median location problem on a network. *European Journal of Operational Research*, **2007**, 179, 1266-1273 | 5.6 | 4 |
| 9 | Facility Dependent Distance Decay in Competitive Location. *Networks and Spatial Economics*, **2020**, 20, 915-934 | 1.9 | 4 |
| 8 | Optimal axis orientation for rectilinear minisum and minimax location. *IIE Transactions*, **1998**, 30, 981-986 | | 3 |
| 7 | Taking advantage of symmetry in some quadratic assignment problems. *Infor*, **2019**, 57, 623-641 | 0.5 | 2 |
| 6 | Sequential location of two facilities: comparing random to optimal location of the first facility. *Annals of Operations Research*, **2016**, 246, 5-18 | 3.2 | 2 |
| 5 | Voronoi diagrams with overlapping regions. *OR Spectrum*, **2013**, 35, 543-561 | 1.9 | 2 |
| 4 | Asymmetric distance location model. *Infor*, **2021**, 59, 102-110 | 0.5 | 2 |

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| 3 | Directional approach to gradual cover: the continuous case. *Computational Management Science*, **2021**, 18, 25-47 | 1 | 2 |
| 2 | Directional approach to gradual cover: a maximin objective. *Computational Management Science*, **2020**, 17, 121-139 | 1 | 1 |
| 1 | Less Is More Approach in Heuristic Optimization **2022**, 469-499 | | 0 |