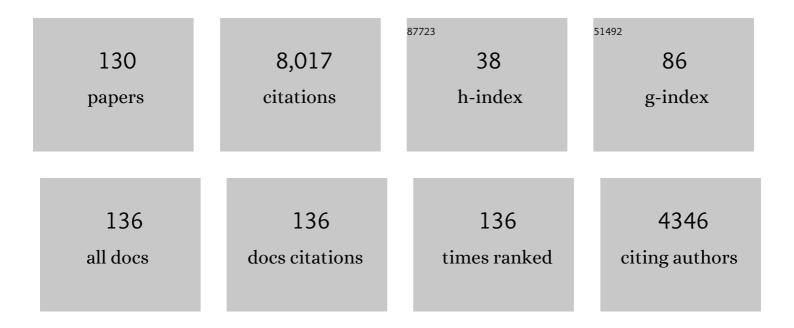
Richard L Church

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The maximal covering location problem. Papers in Regional Science, 1974, 32, 101-118.	1.0	1,749
2	Reserve selection as a maximal covering location problem. Biological Conservation, 1996, 76, 105-112.	1.9	396
3	THE MAXIMAL COVERING LOCATION PROBLEM. Papers in Regional Science, 1974, 32, 101-118.	1.0	354
4	A bilevel mixed-integer program for critical infrastructure protection planning. Computers and Operations Research, 2008, 35, 1905-1923.	2.4	307
5	Identifying Critical Infrastructure: The Median and Covering Facility Interdiction Problems. Annals of the American Association of Geographers, 2004, 94, 491-502.	3.0	298
6	Geographical information systems and location science. Computers and Operations Research, 2002, 29, 541-562.	2.4	258
7	Finding shortest paths on real road networks: the case for A*. International Journal of Geographical Information Science, 2009, 23, 531-543.	2.2	255
8	The Team/Fleet Models for Simultaneous Facility and Equipment Siting. Transportation Science, 1979, 13, 163-175.	2.6	218
9	Protecting Critical Assets: The r-Interdiction Median Problem with Fortification. Geographical Analysis, 2007, 39, 129-146.	1.9	213
10	Spatial optimization as a generative technique for sustainable multiobjective landâ€use allocation. International Journal of Geographical Information Science, 2008, 22, 601-622.	2.2	181
11	Mapping transitâ€based access: integrating GIS, routes and schedules. International Journal of Geographical Information Science, 2010, 24, 283-304.	2.2	178
12	Applying simulated annealing to location-planning models. Journal of Heuristics, 1996, 2, 31-53.	1.1	154
13	An efficient measure of compactness for two-dimensional shapes and its application in regionalization problems. International Journal of Geographical Information Science, 2013, 27, 1227-1250.	2.2	144
14	Theoretical and Computational Links between the pâ€Median, Location Setâ€covering, and the Maximal Covering Location Problem. Geographical Analysis, 1976, 8, 406-415.	1.9	138
15	Heuristic solution approaches to operational forest planning problems. OR Spectrum, 1995, 17, 193-203.	2.1	131
16	Planning for Disruptions in Supply Chain Networks. , 2006, , 234-257.		129
17	An exact solution approach for the interdiction median problem with fortification. European Journal of Operational Research, 2008, 189, 76-92.	3.5	124
18	SYMPOSIUM ON LOCATION PROBLEMS: IN MEMORY OF LEON COOPER Journal of Regional Science, 1984, 24, 185-201.	2.1	107

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19	Mapping evacuation risk on transportation networks using a spatial optimization model. Transportation Research Part C: Emerging Technologies, 2000, 8, 321-336.	3.9	100
20	Designing robust coverage networks to hedge against worst-case facility losses. European Journal of Operational Research, 2011, 209, 23-36.	3.5	99
21	Contiguity Constraints for Singleâ€Region Site Search Problems. Geographical Analysis, 2000, 32, 306-329.	1.9	95
22	The <i>p</i> -Regions Problem. p-地域问é¢~. Geographical Analysis, 2011, 43, 104-126.	1.9	91
23	Computational Procedures for Location Problems on Stochastic Networks. Transportation Science, 1983, 17, 168-180.	2.6	84
24	A Median Location Model with Nonclosest Facility Service. Transportation Science, 1985, 19, 58-74.	2.6	84
25	Improving accessibility to rural health services: The maximal covering network improvement problem. Socio-Economic Planning Sciences, 2009, 43, 102-110.	2.5	84
26	Regional service coverage modeling. Computers and Operations Research, 2008, 35, 339-355.	2.4	81
27	Generalized coverage models and public facility location. Papers in Regional Science, 1983, 53, 117-135.	1.0	79
28	Integrating expected coverage and local reliability for emergency medical servicesÂlocation problems. Socio-Economic Planning Sciences, 2010, 44, 8-18.	2.5	69
29	Selecting sites for rural health workers. Social Science and Medicine, 1982, 16, 63-72.	1.8	68
30	Measuring Accessibility for People with a Disability. Geographical Analysis, 2003, 35, 83-96.	1.9	64
31	COBRA: A New Formulation of the Classic p-Median Location Problem. Annals of Operations Research, 2003, 122, 103-120.	2.6	61
32	A hybrid fleet model for emergency medical service system design. Social Science and Medicine, 1988, 26, 163-171.	1.8	56
33	Closest assignment constraints and location models: Properties and structure. Location Science, 1996, 4, 251-270.	0.2	55
34	Constructing Cell-Based Habitat Patches Useful in Conservation Planning. Annals of the American Association of Geographers, 2003, 93, 814-827.	3.0	54
35	Measuring the efficacy of adjacency constraint structure in forest planning models. Canadian Journal of Forest Research, 1995, 25, 1416-1424.	0.8	51
36	BEAMR: An exact and approximate model for the p-median problem. Computers and Operations Research, 2008, 35, 417-426.	2.4	47

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37	The stochastic interdiction median problem with disruption intensity levels. Annals of Operations Research, 2012, 201, 345-365.	2.6	47
38	Modeling School Utilization and Consolidation. Journal of the Urban Planning and Development Division, ASCE, 1993, 119, 23-38.	0.8	45
39	Protecting Supply Systems to Mitigate Potential Disaster. International Regional Science Review, 2012, 35, 188-210.	1.0	44
40	Transmission Corridor Location Modeling. Journal of Transportation Engineering, 1985, 111, 114-130.	0.9	41
41	Restoring forest landscapes for biodiversity conservation and rural livelihoods: A spatial optimisation model. Environmental Modelling and Software, 2011, 26, 1622-1638.	1.9	38
42	An interface for exploring spatial alternatives for a corridor location problem. Computers and Geosciences, 1992, 18, 1095-1105.	2.0	36
43	Locational issues in forest management. Location Science, 1998, 6, 137-153.	0.2	36
44	Habitat evaluation using GIS. Landscape and Urban Planning, 2001, 52, 239-255.	3.4	35
45	A GRASP and Path Relinking Heuristic for Rural Road Network Development. Journal of Heuristics, 2005, 11, 89-108.	1.1	34
46	A Family of Location Models for Multiple-Type Discrete Dispersion. Geographical Analysis, 2006, 38, 248-270.	1.9	34
47	The p ompactâ€regions Problem. Geographical Analysis, 2014, 46, 250-273.	1.9	34
48	A Bicriterion Maximal Covering Location Formulation Which Considers the Satisfaction of Uncovered Demand. Decision Sciences, 1991, 22, 38-52.	3.2	33
49	Analysis of Facility Systems' Reliability When Subject to Attack or a Natural Disaster. , 2007, , 221-241.		33
50	Review of obnoxious facilities location problems. Computers and Operations Research, 2022, 138, 105468.	2.4	31
51	Aggregation in continuous space coverage modeling. International Journal of Geographical Information Science, 2012, 26, 795-816.	2.2	30
52	Locating short-term empty-container storage facilities to support port operations: A user optimal approach. Transportation Research, Part E: Logistics and Transportation Review, 2011, 47, 738-754.	3.7	29
53	The SITES reserve selection system: A critical review. Environmental Modeling and Assessment, 2005, 10, 215-228.	1.2	28
54	Commercial GIS location analytics: capabilities and performance. International Journal of Geographical Information Science, 2019, 33, 1106-1130.	2.2	28

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55	Forest management models and combinatorial algorithms: analysis of state of the art. Annals of Operations Research, 2000, 96, 271-285.	2.6	27
56	GENERALIZED COVERAGE MODELS AND PUBLIC FACILITY LOCATION. Papers in Regional Science, 1983, 53, 117-135.	1.0	25
57	An Analysis of Ancient Egyptian Settlement Patterns Using Location–Allocation Covering Models. Annals of the American Association of Geographers, 1988, 78, 701-714.	3.0	23
58	Corridor location: the multi-gateway shortest path model. Journal of Geographical Systems, 2014, 16, 287-309.	1.9	23
59	Vector Assignment Ordered Median Problem. International Regional Science Review, 2014, 37, 194-224.	1.0	23
60	An extendable heuristic framework to solve the p-compact-regions problem for urban economic modeling. Computers, Environment and Urban Systems, 2014, 43, 1-13.	3.3	23
61	Estimating spatial efficiency using cyber search, GIS, and spatial optimization: a case study of fire service deployment in Los Angeles County. International Journal of Geographical Information Science, 2016, 30, 535-553.	2.2	23
62	Selecting conservation reserves using species-covering models: Adapting the ARC/INFO GIS. Transactions in GIS, 1997, 2, 45-60.	1.0	21
63	On a bi-level formulation to protect uncapacitated p-median systems with facility recovery time and frequent disruptions. Electronic Notes in Discrete Mathematics, 2010, 36, 591-598.	0.4	21
64	A unified approach for location-allocation analysis: integrating GIS, distributed computing and spatial optimization. International Journal of Geographical Information Science, 2016, 30, 515-534.	2.2	21
65	The Nested Hierarchical Median Facility Location Model. Infor, 1991, 29, 100-102.	0.5	20
66	Single facility siting involving allocation decisions. European Journal of Operational Research, 2020, 284, 834-846.	3.5	20
67	The Regionally Constrained pâ€Median Problem. Geographical Analysis, 1990, 22, 22-32.	1.9	18
68	Commentary On "The Highest Form of the Geographer's Art― Annals of the American Association of Geographers, 1982, 72, 557-558.	3.0	17
69	Constructing And Selecting Adjacency Constraints. Infor, 1996, 34, 232-248.	0.5	17
70	Concurrent optimization of harvesting and road network layouts under steep terrain. Annals of Operations Research, 2015, 232, 41.	2.6	17
71	Solving the p-median problem on regular and lattice networks. Computers and Operations Research, 2020, 123, 105057.	2.4	17
72	On the unified dispersion problem: Efficient formulations and exact algorithms. European Journal of Operational Research, 2015, 241, 622-630.	3.5	16

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73	The importance of in situ site loss in nature reserve selection: Balancing notions of complementarity and robustness. Biological Conservation, 2007, 135, 170-180.	1.9	15
74	Optimal dispersion and central places. Journal of Geographical Systems, 2007, 9, 167-187.	1.9	15
75	Challenges in applying capacitated covering models. Transactions in CIS, 2020, 24, 268-290.	1.0	15
76	Forest planning at the tactical level. Annals of Operations Research, 2000, 95, 3-18.	2.6	14
77	Corridor Location for Infrastructure Development. International Regional Science Review, 2014, 37, 129-148.	1.0	14
78	Manpower Deployment in Emergency Services. Fire Technology, 2001, 37, 219-234.	1.5	12
79	Cyberinfrastructure, GIS, and spatial optimization: opportunities and challenges. International Journal of Geographical Information Science, 2016, 30, 427-431.	2.2	12
80	A relative access measure to identify barriers to efficient transit use by persons with visual impairments. Disability and Rehabilitation, 2005, 27, 769-779.	0.9	11
81	Optimizing cable harvesting layout when using variable-length cable roads in central Europe. Canadian Journal of Forest Research, 2014, 44, 949-960.	0.8	11
82	Maximal covering tree problems. Naval Research Logistics, 1993, 40, 129-142.	1.4	10
83	A Unified Model for Dispersing Facilities. Geographical Analysis, 2013, 45, 401-418.	1.9	10
84	Location Problems Under Disaster Events. , 2015, , 623-642.		9
85	Location set-covering inspired models for designing harvesting and cable road layouts. European Journal of Forest Research, 2018, 137, 771-792.	1.1	8
86	Extensions to the Weber problem. Computers and Operations Research, 2022, 143, 105786.	2.4	8
87	Designing Robust Coverage Systems: A Maximal Covering Model with Geographically Varying Failure Probabilities. Annals of the American Association of Geographers, 2014, 104, 922-938.	3.0	7
88	Location-allocation Modeling. Geographic Information Science & Technology Body of Knowledge, 2018, 2018, .	0.1	7
89	Service allocation equity in location coverage analytics. European Journal of Operational Research, 2023, 305, 21-37.	3.5	7
90	LINEAR PROGRAMS FOR NONLINEAR HYDROLOGIC ESTIMATION. Journal of the American Water Resources Association, 1990, 26, 645-656.	1.0	6

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91	Unpacking Central Place Geometry I: Single Level Theoretical k Systems. Geographical Analysis, 1990, 22, 95-115.	1.9	6
92	Optimum Location of Motorway Interchanges: Users' Perspective. Journal of Transportation Engineering, 2010, 136, 956-963.	0.9	6
93	PPP motorway ventures – an optimization model to locate interchanges with social welfare and private profit objectives. Transportmetrica A: Transport Science, 2016, 12, 832-852.	1.3	6
94	Tobler's Law and Spatial Optimization. International Regional Science Review, 2018, 41, 287-310.	1.0	6
95	A heuristic algorithm for balancing workloads in coverage modeling. Computers, Environment and Urban Systems, 2022, 92, 101746.	3.3	6
96	Thep-median scheduling and location problem. Papers in Regional Science, 1991, 70, 21-35.	1.0	5
97	The Shortest Covering Path Problem. International Regional Science Review, 2016, 39, 131-151.	1.0	5
98	Coastal Vulnerability under Extreme Weather. Applied Spatial Analysis and Policy, 2021, 14, 497-523.	1.0	5
99	Drone service response: Spatiotemporal heterogeneity implications. Journal of Transport Geography, 2021, 93, 103074.	2.3	5
100	Location Problems Under Disaster Events. , 2019, , 631-656.		5
101	Location expression standards for ITS: Testing the LRMS Cross Street Profile. Annals of Regional Science, 1999, 33, 197-212.	1.0	4
102	Optimization Models for the Location of Motorway Interchanges: Concessionaires' Perspective. Journal of Transportation Engineering, 2011, 137, 962-970.	0.9	4
103	Generating optimal and near-optimal solutions to facility location problems. Environment and Planning B: Urban Analytics and City Science, 2020, 47, 1014-1030.	1.0	4
104	Development Density-Based Optimization Modeling of Sustainable Land Use Patterns. , 2006, , 881-896.		4
105	Advancing contiguous environmental land allocation analysis, planning and modeling. Journal of Land Use Science, 2022, 17, 572-590.	1.0	4
106	Introduction to the Special Issue on Location Modeling. Networks and Spatial Economics, 2010, 10, 293-295.	0.7	3
107	On the Finite Optimality Set of the Vector Assignment <i>p</i> â€Median Problem. Geographical Analysis, 2015, 47, 134-145.	1.9	3
108	Modeling the Potential for Critical Habitat. Profiles in Operations Research, 2015, , 155-171.	0.3	3

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127	Grand Challenges. Advances in Spatial Science, 2018, , 255-266.	0.3	0
128	Continuous Space Coverage. Advances in Spatial Science, 2018, , 177-201.	0.3	0
129	Extended Forms of Coverage. Advances in Spatial Science, 2018, , 49-79.	0.3	0
130	Optimal region design to foster industrial diversification. Regional Studies, 0, , 1-17.	2.5	0