

# Richard L Church

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

131  
papers

6,222  
citations

37  
h-index

78  
g-index

136  
ext. papers

6,975  
ext. citations

3  
avg, IF

6.05  
L-index

#	Paper	IF	Citations
131	A heuristic algorithm for balancing workloads in coverage modeling. <i>Computers, Environment and Urban Systems</i> , <b>2022</b> , 92, 101746	5.9	0
130	Service quality modeling to support optimizing facility location in a microscale environment. <i>Socio-Economic Planning Sciences</i> , <b>2022</b> , 101273	3.7	
129	Extensions to the Weber problem. <i>Computers and Operations Research</i> , <b>2022</b> , 143, 105786	4.6	1
128	Drone service response: Spatiotemporal heterogeneity implications. <i>Journal of Transport Geography</i> , <b>2021</b> , 93, 103074	5.2	2
127	Coastal Vulnerability under Extreme Weather. <i>Applied Spatial Analysis and Policy</i> , <b>2021</b> , 14, 497-523	1.7	1
126	Review of obnoxious facilities location problems. <i>Computers and Operations Research</i> , <b>2021</b> , 138, 105468	4.6	7
125	Fire and Flood Vulnerability, and Implications for Evacuation. <i>Urban Book Series</i> , <b>2021</b> , 299-314	0.3	
124	Generating optimal and near-optimal solutions to facility location problems. <i>Environment and Planning B: Urban Analytics and City Science</i> , <b>2020</b> , 47, 1014-1030	2	2
123	Challenges in applying capacitated covering models. <i>Transactions in GIS</i> , <b>2020</b> , 24, 268-290	2.1	7
122	Single facility siting involving allocation decisions. <i>European Journal of Operational Research</i> , <b>2020</b> , 284, 834-846	5.6	7
121	Solving the p-median problem on regular and lattice networks. <i>Computers and Operations Research</i> , <b>2020</b> , 123, 105057	4.6	3
120	Commercial GIS location analytics: capabilities and performance. <i>International Journal of Geographical Information Science</i> , <b>2019</b> , 33, 1106-1130	4.1	17
119	Addressing risks and uncertainty in forest land use modeling. <i>Journal of Geographical Systems</i> , <b>2019</b> , 21, 319-338	1.8	2
118	Location Problems Under Disaster Events <b>2019</b> , 631-656		2
117	Optimizing Safe Routes to School. <i>Socio-Economic Planning Sciences</i> , <b>2019</b> , 67, 26-33	3.7	0
116	Tobler's Law and Spatial Optimization: Why Bakersfield?. <i>International Regional Science Review</i> , <b>2018</b> , 41, 287-310	1.8	4
115	Location-allocation Modeling. <i>Geographic Information Science &amp; Technology Body of Knowledge</i> , <b>2018</b> , 2018,	2.7	5

114	Grand Challenges. <i>Advances in Spatial Science</i> , <b>2018</b> , 255-266	0.4	
113	Continuous Space Coverage. <i>Advances in Spatial Science</i> , <b>2018</b> , 177-201	0.4	
112	Location Modeling and Covering Metrics. <i>Advances in Spatial Science</i> , <b>2018</b> , 1-22	0.4	2
111	Extended Forms of Coverage. <i>Advances in Spatial Science</i> , <b>2018</b> , 49-79	0.4	
110	Anti-cover. <i>Advances in Spatial Science</i> , <b>2018</b> , 107-130	0.4	2
109	Disruption, Protection, and Resilience. <i>Advances in Spatial Science</i> , <b>2018</b> , 203-227	0.4	1
108	Location set-covering inspired models for designing harvesting and cable road layouts. <i>European Journal of Forest Research</i> , <b>2018</b> , 137, 771-792	2.7	6
107	Classic Beginnings. <i>Advances in Spatial Science</i> , <b>2018</b> , 23-47	0.4	
106	Probabilistic Coverage. <i>Advances in Spatial Science</i> , <b>2018</b> , 81-106	0.4	
105	Shortest Paths from a Group Perspective & A Note on Selfish Routing Games with Cognitive Agents. <i>ISPRS International Journal of Geo-Information</i> , <b>2018</b> , 7, 345	2.9	
104	Characterizing Habitat Elements and Their Distribution over Several Spatial Scales: The Case of the Fisher. <i>Forests</i> , <b>2017</b> , 8, 186	2.8	1
103	A unified approach for location-allocation analysis: integrating GIS, distributed computing and spatial optimization. <i>International Journal of Geographical Information Science</i> , <b>2016</b> , 30, 515-534	4.1	18
102	Introduction to the 40 Years of Maximal Coverage Special Issue. <i>International Regional Science Review</i> , <b>2016</b> , 39, 3-4	1.8	1
101	The Shortest Covering Path Problem: A New Perspective and Model. <i>International Regional Science Review</i> , <b>2016</b> , 39, 131-151	1.8	5
100	Estimating spatial efficiency using cyber search, GIS, and spatial optimization: a case study of fire service deployment in Los Angeles County. <i>International Journal of Geographical Information Science</i> , <b>2016</b> , 30, 535-553	4.1	13
99	PPP motorway ventures & An optimization model to locate interchanges with social welfare and private profit objectives. <i>Transportmetrica A: Transport Science</i> , <b>2016</b> , 12, 832-852	2.5	5
98	On the Finite Optimality Set of the Vector Assignment p-Median Problem. <i>Geographical Analysis</i> , <b>2015</b> , 47, 134-145	2.9	3
97	A semi-greedy metaheuristic for the European cableway location problem. <i>Journal of Heuristics</i> , <b>2015</b> , 21, 641-662	1.9	

96	Modeling the Potential for Critical Habitat. <i>Profiles in Operations Research</i> , <b>2015</b> , 155-171	1	3
95	On the unified dispersion problem: Efficient formulations and exact algorithms. <i>European Journal of Operational Research</i> , <b>2015</b> , 241, 622-630	5.6	10
94	Spatial Optimization Models <b>2015</b> , 172-177		1
93	Location Problems Under Disaster Events <b>2015</b> , 623-642		6
92	Corridor location: the multi-gateway shortest path model. <i>Journal of Geographical Systems</i> , <b>2014</b> , 16, 287-309	1.8	21
91	Corridor Location for Infrastructure Development: A Fast Bi-objective Shortest Path Method for Approximating the Pareto Frontier. <i>International Regional Science Review</i> , <b>2014</b> , 37, 129-148	1.8	8
90	Vector Assignment Ordered Median Problem: A Unified Median Problem. <i>International Regional Science Review</i> , <b>2014</b> , 37, 194-224	1.8	17
89	Optimizing cable harvesting layout when using variable-length cable roads in central Europe. <i>Canadian Journal of Forest Research</i> , <b>2014</b> , 44, 949-960	1.9	9
88	The p-Compact-regions Problem. <i>Geographical Analysis</i> , <b>2014</b> , 46, 250-273	2.9	20
87	Designing Robust Coverage Systems: A Maximal Covering Model with Geographically Varying Failure Probabilities. <i>Annals of the American Association of Geographers</i> , <b>2014</b> , 104, 922-938		6
86	An extendable heuristic framework to solve the p-compact-regions problem for urban economic modeling. <i>Computers, Environment and Urban Systems</i> , <b>2014</b> , 43, 1-13	5.9	18
85	A Unified Model for Dispersing Facilities. <i>Geographical Analysis</i> , <b>2013</b> , 45, 401-418	2.9	8
84	An efficient measure of compactness for two-dimensional shapes and its application in regionalization problems. <i>International Journal of Geographical Information Science</i> , <b>2013</b> , 27, 1227-1250 <sup>4.1</sup>		100
83	The stochastic interdiction median problem with disruption intensity levels. <i>Annals of Operations Research</i> , <b>2012</b> , 201, 345-365	3.2	37
82	Concurrent optimization of harvesting and road network layouts under steep terrain. <i>Annals of Operations Research</i> , <b>2012</b> , 232, 41	3.2	13
81	Protecting Supply Systems to Mitigate Potential Disaster: A Model to Fortify Capacitated Facilities. <i>International Regional Science Review</i> , <b>2012</b> , 35, 188-210	1.8	35
80	Aggregation in continuous space coverage modeling. <i>International Journal of Geographical Information Science</i> , <b>2012</b> , 26, 795-816	4.1	27
79	Locating short-term empty-container storage facilities to support port operations: A user optimal approach. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2011</b> , 47, 738-754	9	21

78	The p-Regions Problem. p-?????. <i>Geographical Analysis</i> , <b>2011</b> , 43, 104-126	2.9	69
77	Restoring forest landscapes for biodiversity conservation and rural livelihoods: A spatial optimisation model. <i>Environmental Modelling and Software</i> , <b>2011</b> , 26, 1622-1638	5.2	30
76	Designing robust coverage networks to hedge against worst-case facility losses. <i>European Journal of Operational Research</i> , <b>2011</b> , 209, 23-36	5.6	89
75	Optimization Models for the Location of Motorway Interchanges: Concessionaires' Perspective. <i>Journal of Transportation Engineering</i> , <b>2011</b> , 137, 962-970		4
74	Optimum Location of Motorway Interchanges: Users' Perspective. <i>Journal of Transportation Engineering</i> , <b>2010</b> , 136, 956-963		6
73	Mapping transit-based access: integrating GIS, routes and schedules. <i>International Journal of Geographical Information Science</i> , <b>2010</b> , 24, 283-304	4.1	136
72	On a bi-level formulation to protect uncapacitated p-median systems with facility recovery time and frequent disruptions. <i>Electronic Notes in Discrete Mathematics</i> , <b>2010</b> , 36, 591-598	0.3	18
71	Introduction to the Special Issue on Location Modeling. <i>Networks and Spatial Economics</i> , <b>2010</b> , 10, 293-295		2
70	Integrating expected coverage and local reliability for emergency medical services location problems. <i>Socio-Economic Planning Sciences</i> , <b>2010</b> , 44, 8-18	3.7	55
69	Theoretical and Computational Links between the p-Median, Location Set-covering, and the Maximal Covering Location Problem. <i>Geographical Analysis</i> , <b>2010</b> , 8, 406-415	2.9	94
68	The Regionally Constrained p-Median Problem. <i>Geographical Analysis</i> , <b>2010</b> , 22, 22-32	2.9	12
67	Unpacking Central Place Geometry I: Single Level Theoretical k Systems. <i>Geographical Analysis</i> , <b>2010</b> , 22, 95-115	2.9	5
66	Contiguity Constraints for Single-Region Site Search Problems. <i>Geographical Analysis</i> , <b>2010</b> , 32, 306-329	2.9	77
65	Improving accessibility to rural health services: The maximal covering network improvement problem. <i>Socio-Economic Planning Sciences</i> , <b>2009</b> , 43, 102-110	3.7	73
64	In Tribute to Dr. Charles S. ReVelle. <i>Geographical Analysis</i> , <b>2009</b> , 41, 3-8	2.9	
63	Finding shortest paths on real road networks: the case for A*. <i>International Journal of Geographical Information Science</i> , <b>2009</b> , 23, 531-543	4.1	182
62	Location-Allocation <b>2008</b> , 259-280		1
61	GIS <b>2008</b> , 19-54		2

60 Dispersion **2008**, 235-258

59	<b>2008</b> ,			30
58	Regional service coverage modeling. <i>Computers and Operations Research</i> , <b>2008</b> , 35, 339-355	4.6		70
57	BEAMR: An exact and approximate model for the p-median problem. <i>Computers and Operations Research</i> , <b>2008</b> , 35, 417-426	4.6		38
56	An exact solution approach for the interdiction median problem with fortification. <i>European Journal of Operational Research</i> , <b>2008</b> , 189, 76-92	5.6		105
55	A bilevel mixed-integer program for critical infrastructure protection planning. <i>Computers and Operations Research</i> , <b>2008</b> , 35, 1905-1923	4.6		255
54	Spatial optimization as a generative technique for sustainable multiobjective land-use allocation. <i>International Journal of Geographical Information Science</i> , <b>2008</b> , 22, 601-622	4.1		155
53	Protecting Critical Assets: The r-Interdiction Median Problem with Fortification. <i>Geographical Analysis</i> , <b>2007</b> , 39, 129-146	2.9		176
52	Optimal dispersion and central places. <i>Journal of Geographical Systems</i> , <b>2007</b> , 9, 167-187	1.8		12
51	The importance of in situ site loss in nature reserve selection: Balancing notions of complementarity and robustness. <i>Biological Conservation</i> , <b>2007</b> , 135, 170-180	6.2		15
50	Analysis of Facility Systems Reliability When Subject to Attack or a Natural Disaster <b>2007</b> , 221-241			23
49	Planning for Disruptions in Supply Chain Networks <b>2006</b> , 234-257			89
48	A Family of Location Models for Multiple-Type Discrete Dispersion. <i>Geographical Analysis</i> , <b>2006</b> , 38, 248-270			28
47	Development Density-Based Optimization Modeling of Sustainable Land Use Patterns <b>2006</b> , 881-896			3
46	A relative access measure to identify barriers to efficient transit use by persons with visual impairments. <i>Disability and Rehabilitation</i> , <b>2005</b> , 27, 769-79	2.4		7
45	THE MAXIMAL COVERING LOCATION PROBLEM. <i>Papers in Regional Science</i> , <b>2005</b> , 32, 101-118	1.8		67
44	GENERALIZED COVERAGE MODELS AND PUBLIC FACILITY LOCATION. <i>Papers in Regional Science</i> , <b>2005</b> , 53, 117-135	1.8		13
43	THE p-MEDIAN SCHEDULING AND LOCATION PROBLEM. <i>Papers in Regional Science</i> , <b>2005</b> , 70, 21-35	1.8		

42	The SITES reserve selection system: A critical review. <i>Environmental Modeling and Assessment</i> , <b>2005</b> , 10, 215-228	2	23
41	A GRASP and Path Relinking Heuristic for Rural Road Network Development. <i>Journal of Heuristics</i> , <b>2005</b> , 11, 89-108	1.9	30
40	Identifying Critical Infrastructure: The Median and Covering Facility Interdiction Problems. <i>Annals of the American Association of Geographers</i> , <b>2004</b> , 94, 491-502		242
39	COBRA: A New Formulation of the Classic p-Median Location Problem. <i>Annals of Operations Research</i> , <b>2003</b> , 122, 103-120	3.2	52
38	Measuring Accessibility for People with a Disability. <i>Geographical Analysis</i> , <b>2003</b> , 35, 83-96	2.9	43
37	Constructing Cell-Based Habitat Patches Useful in Conservation Planning. <i>Annals of the American Association of Geographers</i> , <b>2003</b> , 93, 814-827		44
36	Geographical information systems and location science. <i>Computers and Operations Research</i> , <b>2002</b> , 29, 541-562	4.6	200
35	Manpower Deployment in Emergency Services. <i>Fire Technology</i> , <b>2001</b> , 37, 219-234	3	9
34	Habitat evaluation using GIS: A case study applied to the San Joaquin Kit Fox. <i>Landscape and Urban Planning</i> , <b>2001</b> , 52, 239-255	7.7	32
33	Mapping evacuation risk on transportation networks using a spatial optimization model. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2000</b> , 8, 321-336	8.4	82
32	Forest planning at the tactical level. <i>Annals of Operations Research</i> , <b>2000</b> , 95, 3-18	3.2	10
31	Forest management models and combinatorial algorithms: analysis of state of the art. <i>Annals of Operations Research</i> , <b>2000</b> , 96, 271-285	3.2	22
30	Location expression standards for ITS: Testing the LRMS Cross Street Profile. <i>Annals of Regional Science</i> , <b>1999</b> , 33, 197-212	1.1	2
29	Locational issues in forest management. <i>Location Science</i> , <b>1998</b> , 6, 137-153		25
28	Selecting conservation reserves using species-covering models: Adapting the ARC/INFO GIS. <i>Transactions in GIS</i> , <b>1997</b> , 2, 45-60	2.1	17
27	Reserve selection as a maximal covering location problem. <i>Biological Conservation</i> , <b>1996</b> , 76, 105-112	6.2	342
26	Closest assignment constraints and location models: Properties and structure. <i>Location Science</i> , <b>1996</b> , 4, 251-270		51
25	Constructing And Selecting Adjacency Constraints. <i>Infor</i> , <b>1996</b> , 34, 232-248	0.5	14

24	Applying simulated annealing to location-planning models. <i>Journal of Heuristics</i> , <b>1996</b> , 2, 31-53	1.9	133
23	Heuristic solution approaches to operational forest planning problems. <i>OR Spectrum</i> , <b>1995</b> , 17, 193-203	1.9	104
22	Measuring the efficacy of adjacency constraint structure in forest planning models. <i>Canadian Journal of Forest Research</i> , <b>1995</b> , 25, 1416-1424	1.9	43
21	Modeling School Utilization and Consolidation. <i>Journal of the Urban Planning and Development Division, ASCE</i> , <b>1993</b> , 119, 23-38	2.2	38
20	Maximal covering tree problems. <i>Naval Research Logistics</i> , <b>1993</b> , 40, 129-142	1.5	9
19	An interface for exploring spatial alternatives for a corridor location problem. <i>Computers and Geosciences</i> , <b>1992</b> , 18, 1095-1105	4.5	33
18	Thep-median scheduling and location problem. <i>Papers in Regional Science</i> , <b>1991</b> , 70, 21-35	1.8	4
17	A Bicriterion Maximal Covering Location Formulation Which Considers the Satisfaction of Uncovered Demand. <i>Decision Sciences</i> , <b>1991</b> , 22, 38-52	3.7	27
16	The Nested Hierarchical Median Facility Location Model. <i>Infor</i> , <b>1991</b> , 29, 100-102	0.5	17
15	LINEAR PROGRAMS FOR NONLINEAR HYDROLOGIC ESTIMATION1. <i>Journal of the American Water Resources Association</i> , <b>1990</b> , 26, 645-656	2.1	5
14	A heuristic for a hybrid fleet model. <i>Computers and Operations Research</i> , <b>1990</b> , 17, 481-494	4.6	1
13	An Analysis of Ancient Egyptian Settlement Patterns Using Location Allocation Covering Models. <i>Annals of the American Association of Geographers</i> , <b>1988</b> , 78, 701-714		15
12	A hybrid FLEET model for emergency medical service system design. <i>Social Science and Medicine</i> , <b>1988</b> , 26, 163-71	5.1	49
11	Transmission Corridor Location Modeling. <i>Journal of Transportation Engineering</i> , <b>1985</b> , 111, 114-130		37
10	A Median Location Model with Nonclosest Facility Service. <i>Transportation Science</i> , <b>1985</b> , 19, 58-74	4.4	69
9	SYMPOSIUM ON LOCATION PROBLEMS: IN MEMORY OF LEON COOPER. <i>Journal of Regional Science</i> , <b>1984</b> , 24, 185-201	1.8	86
8	Computational Procedures for Location Problems on Stochastic Networks. <i>Transportation Science</i> , <b>1983</b> , 17, 168-180	4.4	72
7	Generalized coverage models and public facility location. <i>Papers in Regional Science</i> , <b>1983</b> , 53, 117-135	1.8	72



6	Selecting sites for rural health workers. <i>Social Science and Medicine</i> , <b>1982</b> , 16, 63-72	5.1	60
5	Commentary On "The Highest Form of the Geographer's Art" <i>Annals of the American Association of Geographers</i> , <b>1982</b> , 72, 557-558		14
4	The Team/Fleet Models for Simultaneous Facility and Equipment Siting. <i>Transportation Science</i> , <b>1979</b> , 13, 163-175	4.4	179
3	The maximal covering location problem. <i>Papers in Regional Science</i> , <b>1974</b> , 32, 101-118	1.8	1487
2	Optimal region design to foster industrial diversification. <i>Regional Studies</i> , 1-17	3.4	
1	Advancing contiguous environmental land allocation analysis, planning and modeling. <i>Journal of Land Use Science</i> , 1-19	2.7	0