Irma ChacÃ³n

List of Publications by Year
in descending order

115 papers	7,334 citations	57719 44 h-index	56687 83 g-index
119 all docs	119 docs citations	119 times ranked	4561 citing authors

#	ARTICLE	IF	CITATIONS
1	Neural-network-based cellular automata for simulating multiple land use changes using GIS. International Journal of Geographical Information Science, 2002, 16, 323-343.	2.2	687
2	Modelling sustainable urban development by the integration of constrained cellular automata and GIS. International Journal of Geographical Information Science, 2000, 14, 131-152.	2.2	525
3	Analyzing spatial restructuring of land use patterns in a fast growing region using remote sensing and GIS. Landscape and Urban Planning, 2004, 69, 335-354.	3.4	327
4	Measurements of POI-based mixed use and their relationships with neighbourhood vibrancy. International Journal of Geographical Information Science, 2017, 31, 658-675.	2.2	323
5	The New Land Development Process and Urban Development in Chinese Cities*. International Journal of Urban and Regional Research, 1996, 20, 330-353.	1.2	293
6	Economic Development and Agricultural Land Loss in the Pearl River Delta, China. Habitat International, 1999, 23, 373-390.	2.3	240
7	City Repositioning and Competitiveness Building in Regional Development: New Development Strategies in Guangzhou, China. International Journal of Urban and Regional Research, 2005, 29, 283-308.	1.2	229
8	A novel algorithm for land use and land cover classification using RADARSAT-2 polarimetric SAR data. Remote Sensing of Environment, 2012, 118, 21-39.	4.6	217
9	Analyzing spatial relationships between urban land use intensity and urban vitality at street block level: A case study of five Chinese megacities. Landscape and Urban Planning, 2020, 193, 103669.	3.4	194
10	Zooming into individuals to understand the collective: A review of trajectory-based travel behaviour studies. Travel Behaviour & Society, 2014, 1, 69-78.	2.4	167
11	Changing Spatial Distribution and Determinants of Land Development in Chinese Cities in the Transition from a Centrally Planned Economy to a Socialist Market Economy: A Case Study of Guangzhou. Urban Studies, 1997, 34, 1851-1879.	2.2	162
12	A Constrained CA Model for the Simulation and Planning of Sustainable Urban Forms by Using GIS. Environment and Planning B: Planning and Design, 2001, 28, 733-753.	1.7	161
13	The transformation of the urban planning system in China from a centrally-planned to transitional economy. Progress in Planning, 1999, 51, 167-252.	2.3	160
14	Data mining of cellular automata's transition rules. International Journal of Geographical Information Science, 2004, 18, 723-744.	2.2	148
15	The impacts of dwelling conditions on older personsâ€™ psychological well-being in Hong Kong: the mediating role of residential satisfaction. Social Science and Medicine, 2005, 60, 2785-2797.	1.8	138
16	Errors and uncertainties in urban cellular automata. Computers, Environment and Urban Systems, 2006, 30, 10-28.	3.3	128
17	Sustainable land development model for rapid growth areas using GIS. International Journal of Geographical Information Science, 1998, 12, 169-189.	2.2	125
18	Decoding Urban Land Governance: State Reconstruction in Contemporary Chinese Cities. Urban Studies, 2009, 46, 559-581.	2.2	124

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19	An integrated remote sensing and GIS approach in the monitoring and evaluation of rapid urban growth for sustainable development in the Pearl River Delta, China. International Planning Studies, 1997, 2, 193-210.	1.2	121
20	Calibration of Cellular Automata by Using Neural Networks for the Simulation of Complex Urban Systems. Environment and Planning A, 2001, 33, 1445-1462.	2.1	121
21	Integration of genetic algorithms and GIS for optimal location search. International Journal of Geographical Information Science, 2005, 19, 581-601.	2.2	114
22	Urban Spatial Structure in a Transitional Economy. Journal of the American Planning Association, 1999, 65, 377-394.	0.9	112
23	Governing global city regions in China and the West. Progress in Planning, 2010, 73, 1-75.	2.3	91
24	A Cellular Automata Model to Simulate Development Density for Urban Planning. Environment and Planning B: Planning and Design, 2002, 29, 431-450.	1.7	86
25	Economic transition and urban transformation of China: The interplay of the state and the market. Urban Studies, 2015, 52, 2822-2848.	2.2	86
26	An integrated GIS and location-allocation approach to public facilities planning—An example of open space planning. Computers, Environment and Urban Systems, 1996, 20, 339-350.	3.3	85
27	High-rise Living in Singapore Public Housing. Urban Studies, 2006, 43, 583-600.	2.2	84
28	The Use of Modal Accessibility Gap as an Indicator for Sustainable Transport Development. Environment and Planning A, 2004, 36, 921-936.	2.1	81
29	State Rescaling and the Making of City-Regions in the Pearl River Delta, China. Environment and Planning C: Urban Analytics and City Science, 2014, 32, 129-143.	1.5	80
30	Guangzhou. Cities, 2003, 20, 361-374.	2.7	79
31	Informal Social Support and Older Persons' Psychological Well-Being in Hong Kong. Journal of Cross-Cultural Gerontology, 2008, 23, 39-55.	0.5	76
32	From cities to super mega city regions in China in a new wave of urbanisation and economic transition: Issues and challenges. Urban Studies, 2020, 57, 636-654.	2.2	76
33	Exploratory calibration of a spatial interaction model using taxi GPS trajectories. Computers, Environment and Urban Systems, 2012, 36, 140-153.	3.3	74
34	Simulation of Development Alternatives Using Neural Networks, Cellular Automata, and GIS for Urban Planning. Photogrammetric Engineering and Remote Sensing, 2003, 69, 1043-1052.	0.3	64
35	Gender inequality in mobility and mode choice in Pakistan. Transportation, 2017, 44, 1519-1534.	2.1	63
36	An improved distance metric for the interpolation of link-based traffic data using kriging: a case study of a large-scale urban road network. International Journal of Geographical Information Science, 2012, 26, 667-689.	2.2	62

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37	Producer service linkages and city connectivity in the mega-city region of China: A case study of the Pearl River Delta. Urban Studies, 2015, 52, 2458-2482.	2.2	60
38	INTERNAL STRUCTURE OF CHINESE CITIES IN THE MIDST OF ECONOMIC REFORM. Urban Geography, 1995, 16, 521-554.	1.7	59
39	THE SOCIAL SPACE OF GUANGZHOU CITY, CHINA. Urban Geography, 1995, 16, 595-621.	1.7	54
40	Spatial variation of self-containment and jobs-housing balance in Shenzhen using cellphone big data. Journal of Transport Geography, 2018, 68, 102-108.	2.3	54
41	Interjurisdictional Cooperation through Bargaining: The Case of the Guangzhouâ€"Zhuhai Railway in the Pearl River Delta, China. China Quarterly, 2013, 213, 130-151.	0.5	53
42	Factors influencing older personsâ€™ residential satisfaction in big and densely populated cities in asia: A case study in Hong Kong. Ageing International, 2004, 29, 46-70.	0.6	52
43	Discovery of transition rules for geographical cellular automata by using ant colony optimization. Science in China Series D: Earth Sciences, 2007, 50, 1578-1588.	0.9	52
44	Multitemporal SAR images for monitoring cultivation systems using case-based reasoning. Remote Sensing of Environment, 2004, 90, 524-534.	4.6	51
45	A three-component method for timely detection of land cover changes using polarimetric SAR images. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 107, 3-21.	4.9	44
46	Spatial Development of Producer Services in the Chinese Urban System. Environment and Planning A, 2013, 45, 159-179.	2.1	39
47	Spatiotemporal traffic-flow dependency and short-term traffic forecasting. Environment and Planning B: Planning and Design, 2008, 35, 762-771.	1.7	38
48	Transportation disadvantage and activity participation in the cities of Rawalpindi and Islamabad, Pakistan. Transport Policy, 2016, 47, 1-12.	3.4	38
49	Personâ€"Environment (Pâ€"E) Fit Models and Psychological Well-Being Among Older Persons in Hong Kong. Environment and Behavior, 2010, 42, 221-242.	2.1	36
50	Predicting the expansion of urban boundary using space syntax and multivariate regression model. Habitat International, 2019, 86, 126-134.	2.3	36
51	Administrative restructuring and urban development in China: Effects of urban administrative level upgrading. Urban Studies, 2020, 57, 1201-1223.	2.2	36
52	Regional Cooperation in the Pan-Pearl River Delta: A Formulaic Aspiration or A New Imagination?. Built Environment, 2008, 34, 408-426.	0.4	32
53	A commuting spectrum analysis of the jobsâ€"housing balance and self-containment of employment with mobile phone location big data. Environment and Planning B: Urban Analytics and City Science, 2018, 45, 434-451.	1.0	29
54	Urban Simulation Using Neural Networks and Cellular Automata for Land Use Planning. , 2002, , 451-464.		29

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55	Applying case-based reasoning to urban planning: a new planning-support system tool. Environment and Planning B: Planning and Design, 1999, 26, 101-115.	1.7	28
56	Regional effects of producer services on manufacturing productivity in China. Applied Geography, 2018, 97, 263-274.	1.7	28
57	Public Housing and Urban Development in Hong Kong. International Development Planning Review, 1984, 6, 79.	0.2	25
58	Outlier detection in traffic data based on the Dirichlet process mixture model. IET Intelligent Transport Systems, 2015, 9, 773-781.	1.7	25
59	Provincial variation of urbanization and urban primacy in China. Annals of Regional Science, 1984, 18, 1-20.	1.0	24
60	Assessing the Effectiveness of Dynamic Symbols in Cartographic Communication. Cartographic Journal, 2004, 41, 229-244.	0.8	24
61	Gendered immobility: influence of social roles and local context on mobility decisions in Pakistan. Transportation Planning and Technology, 2018, 41, 660-678.	0.9	21
62	Intraurban Location of Producer Services in Guangzhou, China. Environment and Planning A, 2011, 43, 28-47.	2.1	20
63	Spatial proximity and location dynamics of knowledge-intensive business service in the Pearl River Delta, China. Habitat International, 2016, 53, 390-402.	2.3	19
64	The Varying Relationships between Multidimensional Urban Form and Urban Vitality in Chinese Megacities: Insights from a Comparative Analysis. Annals of the American Association of Geographers, 2022, 112, 141-166.	1.5	19
65	Monthly short-term detection of land development using RADARSAT-2 polarimetric SAR imagery. Remote Sensing of Environment, 2015, 164, 179-196.	4.6	18
66	Re-building Regulation and Re-inventing Governance in the Pearl River Delta, China. Urban Policy and Research, 2012, 30, 385-401.	0.8	17
67	Moving down the urban hierarchy: Turning point of China's internal migration caused by age structure and <i>hukou</i> system. Urban Studies, 2022, 59, 1389-1405.	2.2	17
68	Angle Difference Method for Vehicle Navigation in Multilevel Road Networks With a Three-Dimensional Transport GIS Database. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 140-152.	4.7	15
69	Socioeconomic variations and disparity in space–time accessibility in suburban China: A case study of Guangzhou. Urban Studies, 2021, 58, 750-768.	2.2	15
70	Case-based reasoning (CBR) in development control. International Journal of Applied Earth Observation and Geoinformation, 2001, 3, 238-251.	1.4	14
71	Is ride-hailing a valuable means of transport in newly developed areas under TOD-oriented urbanization in China? Evidence from Chengdu City. Journal of Transport Geography, 2021, 96, 103183.	2.3	14
72	Will rural urbanization produce a new producer service space in China?. Habitat International, 2017, 67, 105-117.	2.3	13

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73	The integration of case-based systems and GIS in development control. Environment and Planning B: Planning and Design, 1999, 26, 345-364.	1.7	12
74	ModelObjectsâ€"â€"a model management component for the development of planning support systems. Computers, Environment and Urban Systems, 2005, 29, 133-157.	3.3	12
75	Hierarchical polygonization for generating and updating lane-based road network information for navigation from road markings. International Journal of Geographical Information Science, 2015, 29, 1509-1533.	2.2	12
76	Introduction: High-Rise Living in Asian Cities. , 2011, , 1-8.		12
77	Component-Based Approach in the Development of a Knowledge-Based Planning Support System (KBPSS). Part 1: The Architecture of KBPSS. Environment and Planning B: Planning and Design, 2004, 31, 517-537.	1.7	11
78	A crop phenology knowledge-based approach for monthly monitoring of construction land expansion using polarimetric synthetic aperture radar imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 133, 1-17.	4.9	11
79	Political tournament and regional cooperation in China: a game theory approach. Annals of Regional Science, 2017, 58, 597-622.	1.0	11
80	Investigation of the effect of the incidence angle on land cover classification using fully polarimetric SAR images. International Journal of Remote Sensing, 2019, 40, 1576-1593.	1.3	11
81	Cellular Automata Modeling for Urban and Regional Planning. Urban Book Series, 2021, , 865-883.	0.3	11
82	Delineating functional urban areas in Chinese mega city regions using fine-grained population data and cellphone location data: A case of Pearl River Delta. Computers, Environment and Urban Systems, 2022, 93, 101771.	3.3	11
83	Economic restructuring and land use planning in Hong Kong. Land Use Policy, 1997, 14, 25-39.	2.5	10
84	Tall Building Living in High Density Cities: A Comparison of Hong Kong and Singapore. , 2011, , 9-23.		9
85	Public Housing-Led New Town Development: Hong Kong and Singapore. International Development Planning Review, 1987, 9, 41.	0.2	8
86	Prediction Time Horizon and Effectiveness of Real-time Data on Short-term Traffic Predictability. , 2007, , .		8
87	Regional delineation of China based on commuting flows. Environment and Planning A, 2020, 52, 478-482.	2.1	8
88	Investigation of the capability of multitemporal RADARSAT-2 fully polarimetric SAR images for land cover classification: a case of Panyu, Guangdong province. European Journal of Remote Sensing, 2021, 54, 338-350.	1.7	8
89	Knowledge discovery for geographical cellular automata. Science in China Series D: Earth Sciences, 2005, 48, 1758-1767.	0.9	7
90	Disamenity effects of displaced villagersâ€™ resettlement community on housing price in China and implication for socio-spatial segregation. Applied Geography, 2022, 142, 102681.	1.7	7

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91	Planning, Government, Information, and the Internet. Environment and Planning B: Planning and Design, 2004, 31, 163-165.	1.7	6
92	Integration of Polarimetric Decomposition, Object-Oriented Image Analysis, and Decision Tree Algorithms for Land-Use and Land-Cover Classification using RADARSAT-2 Polarimetric SAR Data. Photogrammetric Engineering and Remote Sensing, 2012, 78, 169-181.	0.3	6
93	SATELLITE TOWN DEVELOPMENT IN CHINA: PROBLEMS AND PROSPECTS. Tijdschrift Voor Economische En Sociale Geografie, 1987, 78, 190-200.	1.2	4
94	Designing a GIS-Based CSCW System for Development Control with an Event-Driven Approach. Photogrammetric Engineering and Remote Sensing, 2004, 70, 225-233.	0.3	4
95	A comparative study of outlier detection for large-scale traffic data by one-class SVM and kernel density estimation. , 2015, , .		4
96	MEASURING POLYCENTRICITY OF MEGA-CITY REGIONS IN CHINA BASED ON THE INTERCITY MIGRATION FLOWS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B6, 275-281.	0.2	4
97	The architecture for a real-time traffic multimedia Internet geographic information system. Environment and Planning B: Planning and Design, 2004, 31, 349-366.	1.7	3
98	Component-Based Approach in the Development of a Knowledge-Based Planning Support System. Part 2: The Model and Knowledge Management Systems of KBPSS. Environment and Planning B: Planning and Design, 2004, 31, 647-671.	1.7	3
99	Editorial: Sustainable Urban Development. Computers, Environment and Urban Systems, 2011, 35, 345-346.	3.3	3
100	Modeling of traffic data characteristics by Dirichlet Process Mixtures. , 2012, , .		3
101	Short-Interval Monitoring of Land Use and Land Cover Change Using a Time Series of RADARSAT-2 Polarimetric SAR Images. , 2015, , 353-371.		3
102	INDUSTRIAL POLICY AND INDUSTRIAL PARK DEVELOPMENT IN HONG KONG. Asian Geographer, 1992, 11, 87-114.	0.4	2
103	Integrating object-oriented image analysis and decision tree algorithm for land use and land cover classification using RADARSAT-2 polarimetric SAR imagery. , 2010, , .		2
104	Determining Optimal Critical Junctions for Real- time Traffic Monitoring for Transport GIS. , 2005, , 447-458.		1
105	Patterns of Residential Adjustment for Older Person: Who will Recover and How Do They Recover? A Study in Different Residential Environments in Hong Kong. Social Indicators Research, 2014, 119, 295-319.	1.4	1
106	HOW WILLING ARE WE TO LIVE IN TALL(ER) HOUSING?. , 2005, , .		1
107	Classification of Photo-Realistic 3D Window Views in a High-Density City: The Case of Hong Kong. , 2021, , 1339-1350.		1
108	Chapter 4 Availability and pricing of georeferenced data in Asia Pacific. Modern Cartography Series, 1998, 3, 47-69.	0.3	0

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109	Territorial Cohesion: An International Comparison from the Perspective of Greater Pearl River Delta, Southern China. Planning Theory and Practice, 2005, 6, 409-413.	0.8	0
110	Using anomaly detection method and multi-temporal Radarsat images for short-term land use/land cover change detection. , 2008, , .		0
111	A Self-Learning Short-Term Traffic Forecasting System. Environment and Planning B: Planning and Design, 2012, 39, 471-485.	1.7	0
112	Automatic calibration of in-vehicle portable inclinometer using mobile phone for vehicle navigation. , 2017, , .		0
113	Building a Case-Based Decision Support System for Land Development Control Using Land Use Function Pattern. Lecture Notes in Computer Science, 2002, , 642-654.	1.0	0
114	Error Propagation and Model Uncertainties of Cellular Automata in Urban Simulation with GIS. , 2004, , 329-345.		0
115	A GIS-based Computer-supported Collaborative Work Flow System in Urban Planning. , 0, , 304-320.		0