

Journal Editorial/Production Report 2012



Computers, Environment and Urban Systems

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Date: 14 Feb 2012

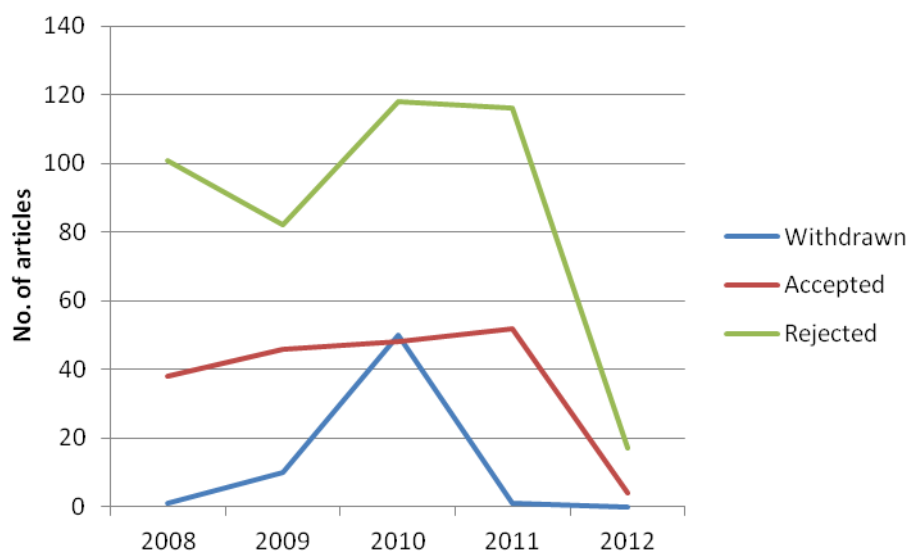
Editorial

Overview of articles received and processed ([accepted](#), [rejected](#), or [withdrawn](#)) by the Editorial Office, as well as the [rejection rate](#).

Per year

| | Subm. No. of articles | No. of articles | Final disposition | | | | | | |
|------|-----------------------------|--------------------|-----------------------------|--------------------|-----------------------|-----------|----------|----------|----------------|
| | | | Processing times (in weeks) | | | Results | | | |
| | | | Subm. to 1st decn. | Auth. rev. time | Sub. to fin. disp. | Withdrawn | Accepted | Rejected | Rejec. rate |
| 2008 | 170 | 140 | 11.2 | 11.4 | 18.9 | 1 | 38 | 101 | 0.73 |
| 2009 | 168 | 138 | 9.1 | 16.3 | 26.7 | 10 | 46 | 82 | 0.64 |
| 2010 | 186 | 216 | 8.2 | 12.5 | 33.5 | 50 | 48 | 118 | 0.71 |
| 2011 | 203 | 169 | 7.1 | 14.6 | 17.3 | 1 | 52 | 116 | 0.69 |
| 2012 | 24 | 21 | 10.1 | 32 | 28.8 | 0 | 4 | 17 | 0.81 |

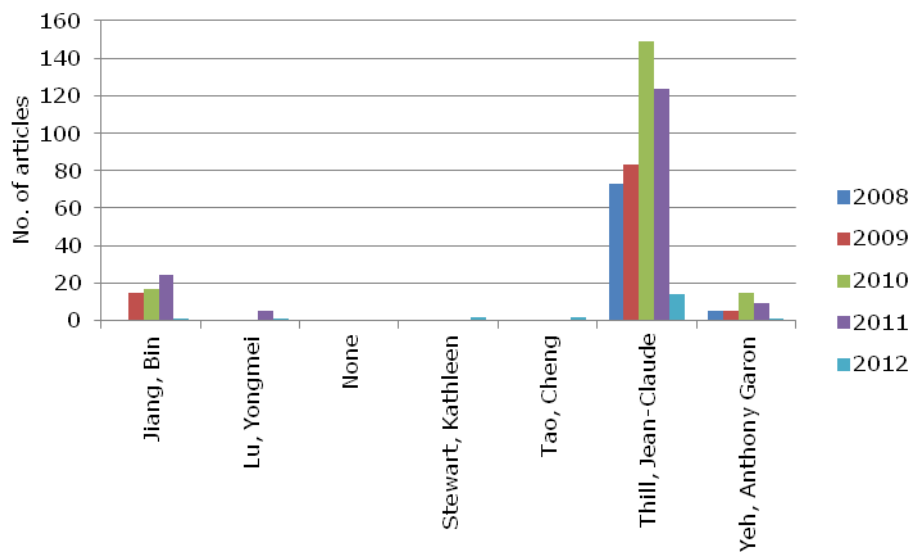
Measurements per 14 Feb 2012



1.1. Per item type

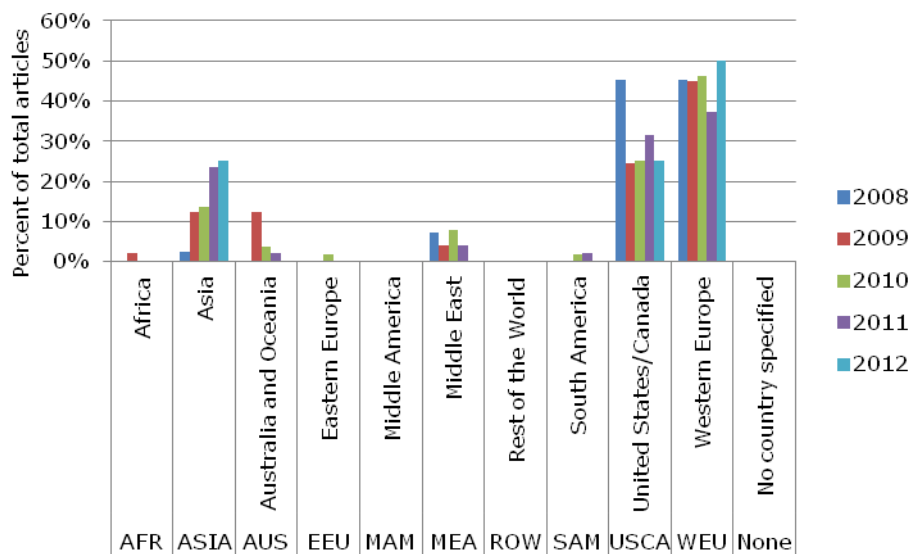
| Item type | Subm. No. of articles | No. of articles | Final disposition | | | | | | |
|---|-----------------------------|--------------------|-----------------------------|--------------------|-----------------------|-----------|----------|-----------|----------------|
| | | | Processing times (in weeks) | | | Results | | | |
| | | | Subm. to 1st decn. | Auth. rev. time | Sub. to fin. disp. | Withdrawn | Accepted | Rejected | Rejec. rate |
| Original Article | 21 | 17 | 9.2 | 35.2 | 30.5 | 0 | 4 | 13 | 76% |
| Review Article | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 100% |
| Special Issue: 2011 Geocomputation confe | | 2 | 17.2 | 0 | 18.6 | 0 | 0 | 2 | 100% |
| Special Issue: Geoinformatics 2010 | 1 | 1 | 21.2 | 9.8 | 47.3 | 0 | 0 | 1 | 100% |
| Total | 24 | 21 | 10.1 | 32 | 28.8 | 0 | 4 | 17 | 81% |

Measurements per 14 Feb 2012



1.2. World regions

[Regional breakdown](#) of corresponding authors.



Geographical breakdown

Countries

Overview of countries of [corresponding authors](#) in numbers of articles and percentages per country. Regular (i.e. non-special issue) articles are listed under "Reg."

The three countries with most accepted articles are bolded, largest increases are blue/underlined, largest decreases are red/italicized (increases and decreases on estimated full-year basis).

| Country | 2010 | | | | 2011 | | | | 2012 | | | |
|----------------------|-----------|------|-----------|------|-----------|------|-----------|------|----------|----|----------|---|
| | All | % | Reg. | % | All | % | Reg. | % | All | % | Reg. | % |
| Australia | 1 | 1.9 | 1 | 3.4 | 1 | 1.9 | 0 | 0 | | 0 | | |
| Austria | | 0 | | 0 | 1 | 1.9 | 1 | 4.8 | | 0 | | |
| Belgium | | 0 | | 0 | 1 | 1.9 | 1 | 4.8 | | 0 | | |
| Brazil | 1 | 1.9 | 0 | 0 | 1 | 1.9 | 0 | 0 | | 0 | | |
| Canada | 3 | 5.6 | 0 | 0 | 1 | 1.9 | 0 | 0 | | 0 | | |
| <i>China</i> | 4 | 7.4 | 2 | 6.9 | 7 | 13 | 4 | 19 | | 0 | | |
| Finland | 1 | 1.9 | 1 | 3.4 | | 0 | | 0 | | 0 | | |
| <u>France</u> | | 0 | | 0 | | 0 | | 0 | 1 | 25 | 0 | |
| Germany | 5 | 9.3 | 2 | 6.9 | 1 | 1.9 | 0 | 0 | | 0 | | |
| Greece | | 0 | | 0 | 1 | 1.9 | 0 | 0 | | 0 | | |
| <u>Indonesia</u> | | 0 | | 0 | | 0 | | 0 | 1 | 25 | 0 | |
| Iran | 3 | 5.6 | 1 | 3.4 | 1 | 1.9 | 0 | 0 | | 0 | | |
| Ireland | 1 | 1.9 | 0 | 0 | 1 | 1.9 | 1 | 4.8 | | 0 | | |
| Israel | | 0 | | 0 | 1 | 1.9 | 0 | 0 | | 0 | | |
| Italy | 2 | 3.7 | 1 | 3.4 | | 0 | | 0 | | 0 | | |
| Japan | 2 | 3.7 | 2 | 6.9 | 3 | 5.6 | 0 | 0 | | 0 | | |
| Korea, Republic of | 1 | 1.9 | 1 | 3.4 | | 0 | | 0 | | 0 | | |
| <i>Netherlands</i> | 6 | 11.1 | 5 | 17.2 | 6 | 11.1 | 3 | 14.3 | | 0 | | |
| New Zealand | 1 | 1.9 | 0 | 0 | | 0 | | 0 | | 0 | | |
| None | 2 | 3.7 | 0 | 0 | 3 | 5.6 | 1 | 4.8 | | 0 | | |
| Portugal | | 0 | | 0 | 1 | 1.9 | 0 | 0 | | 0 | | |
| Republic of Serbia | 1 | 1.9 | 1 | 3.4 | | 0 | | 0 | | 0 | | |
| <u>Spain</u> | 3 | 5.6 | 3 | 10.3 | 1 | 1.9 | 1 | 4.8 | 1 | 25 | 0 | |
| Sweden | 1 | 1.9 | 0 | 0 | 2 | 3.7 | 0 | 0 | | 0 | | |
| Switzerland | 2 | 3.7 | 0 | 0 | | 0 | | 0 | | 0 | | |
| Taiwan | | 0 | | 0 | 2 | 3.7 | 0 | 0 | | 0 | | |
| Turkey | 1 | 1.9 | 1 | 3.4 | | 0 | | 0 | | 0 | | |
| United Kingdom | 3 | 5.6 | 2 | 6.9 | 4 | 7.4 | 1 | 4.8 | | 0 | | |
| <i>United States</i> | 10 | 18.5 | 6 | 20.7 | 15 | 27.8 | 8 | 38.1 | 1 | 25 | 0 | |
| Total | 54 | | 29 | | 54 | | 21 | | 4 | | 0 | |

Measurements per 11 Feb 2012

Publication speed

All articles

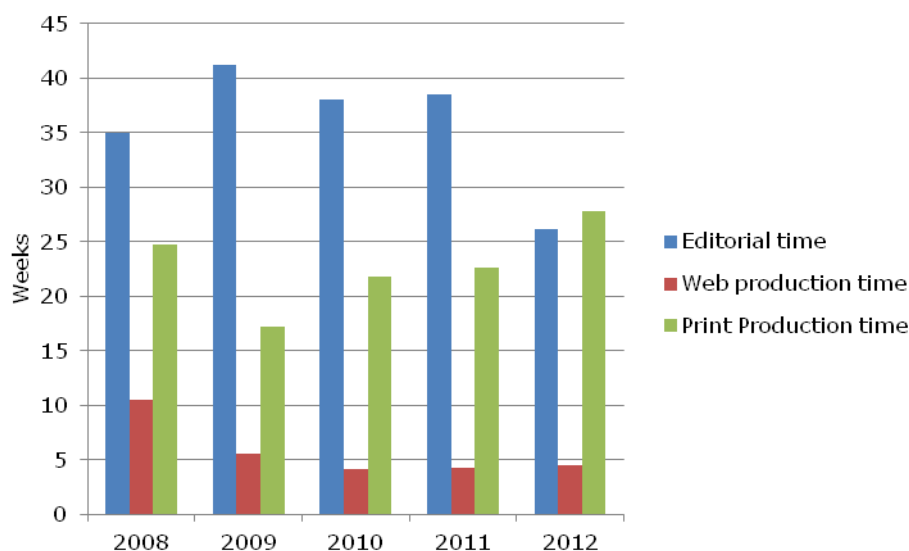
Measurements in weeks. Averages, including the average over all issues, are weighted over all articles in each issue. [Editorial time](#) is defined as time between first submission and arrival at the Elsevier offices; [Production time](#) as the time between arrival at the Elsevier offices and (1) web publication of the article in final version on ScienceDirect, (2) web publication of the complete journal issue on ScienceDirect, and (3) despatch of the printed issue from the warehouse; and finally the total [publication time](#) as the time from submission to despatch of the issue from the warehouse.

| | Issue type | No. of articles | Editorial time | Production time | | | Publication time | |
|------------|------------|-----------------|----------------|---------------------------------|-----------------------|---------------|------------------|---------------|
| | | | | Article in final version on web | Complete issue on web | Printed issue | On web | Printed issue |
| All issues | | 8 | 26.1 | 4.5 | 25.6 | 27.8 | 51.7 | 53.9 |
| 36/1 | R | 8 | 26.1 | 4.5 | 25.6 | 27.8 | 51.7 | 53.9 |

Measurements per 11 Feb 2012

Previous years

Graphical presentation of average publication time of printed issues over previous years.



ScienceDirect usage

| Articles on line 1363 | | | Accounts 7804 | | |
|-----------------------|----------|----------|---------------|----------|--|
| Current year | Jan 2012 | Feb 2012 | | | |
| Downloads | 14474 | | | | |
| Previous years | 2009 | 2010 | 2011 | 2012 YTD | |
| Downloads | 125847 | 151333 | 143295 | 14474 | |

28/02/12

Top 25 Hottest Articles

1. **Simulation and analysis of urban growth scenarios for the Greater Shanghai Area, China**
Computers, Environment and Urban Systems, Volume 35, Issue 2, January 2011, Pages 126-139
 Zhang, Q.; Ban, Y.; Liu, J.; Hu, Y.
[Cited by SciVerse Scopus \(2\)](#)

2. **Modelling of urban green space walkability: Eco-friendly walk score calculator**
Computers, Environment and Urban Systems, Volume 35, Issue 5, January 2011, Pages 408-420
 Lwin, K.K.; Murayama, Y.

3. **Impediments to using GIS for real-time disaster decision support**
Computers, Environment and Urban Systems, Volume 27, Issue 2, January 2003, Pages 123-141
 Zerger, A.; Smith, D.I.
[Cited by SciVerse Scopus \(48\)](#)

4. **Expert systems and GIS: an application of land suitability evaluation**
Computers, Environment and Urban Systems, Volume 26, Issue 2-3, January 2002, Pages 89-112
 Kalogirou, S.
[Cited by SciVerse Scopus \(54\)](#)

5. **The role of spatial metrics in the analysis and modeling of urban land use change**
Computers, Environment and Urban Systems, Volume 29, Issue 4, January 2005, Pages 369-399
 Herold, M.; Couclelis, H.; Clarke, K.C.
[Cited by SciVerse Scopus \(61\)](#)

6. **Integrating GIS, simulation models, and visualization in traffic impact analysis**
Computers, Environment and Urban Systems, Volume 29, Issue 4, January 2005, Pages 471-496
 Wang, X.
[Cited by SciVerse Scopus \(17\)](#)

7. **Quantifying rooftop solar photovoltaic potential for regional renewable energy policy**
Computers, Environment and Urban Systems, Volume 34, Issue 4, January 2010, Pages 345-357
 Wiginton, L.K.; Nguyen, H.T.; Pearce, J.M.
[Cited by SciVerse Scopus \(9\)](#)

8. **Geospatial Cyberinfrastructure: Past, present and future**
Computers, Environment and Urban Systems, Volume 34, Issue 4, January 2010, Pages 264-277
 Yang, C.; Raskin, R.; Goodchild, M.; Gahegan, M.
[Cited by SciVerse Scopus \(26\)](#)

9. **An improved snake model for automatic extraction of buildings from urban aerial images and LiDAR data**
Computers, Environment and Urban Systems, Volume 34, Issue 5, January 2010, Pages 435-441
 Kabolizade, M.; Ebadi, H.; Ahmadi, S.
[Cited by SciVerse Scopus \(2\)](#)

10. **A real-time hydrological model for flood prediction using GIS and the WWW**
Computers, Environment and Urban Systems, Volume 27, Issue 1, January 2003, Pages 9-32
 Al-Sabhan, W.; Mulligan, M.; Blackburn, G.A.
[Cited by SciVerse Scopus \(33\)](#)

11. **Spatial data mining and geographic knowledge discovery**
Computers, Environment and Urban Systems, Volume 33, Issue 6, January 2009, Pages 403-408
 Mennis, J.; Guo, D.
[Cited by SciVerse Scopus \(8\)](#)

12. **Using neural networks and GIS to forecast land use changes: a Land Transformation Model**
Computers, Environment and Urban Systems, Volume 26, Issue 6, January 2002, Pages 553-575
 Pijanowski, B.C.; Brown, D.G.; Shellito, B.A.; Manik, G.A.
[Cited by SciVerse Scopus \(113\)](#)

13. **Modeling urban dynamics through GIS-based cellular automata**
Computers, Environment and Urban Systems, Volume 23, Issue 3, January 1999, Pages 205-233
 Batty, M.; Xie, Y.; Sun, Z.
[Cited by SciVerse Scopus \(162\)](#)

14. **Multidimensional urban sprawl in Europe: A self-organizing map approach** • Review article
Computers, Environment and Urban Systems, Volume 35, Issue 4, January 2011, Pages 263-275
 Arribas-Bel, D.; Nijkamp, P.; Scholten, H.

15. **An empirical analysis of the influence of urban form on household travel and energy consumption**
Computers, Environment and Urban Systems, Volume 35, Issue 5, January 2011, Pages 347-357
 Liu, C.; Shen, Q.

16. **Characterizing urban sprawl using multi-stage remote sensing images and landscape metrics**

Computers, Environment and Urban Systems, Volume 30, Issue 6, January 2006, Pages 861-879
Ji, W.; Ma, J.; Twibell, R.W.; Underhill, K.
[Cited by SciVerse Scopus \(32\)](#)

17. Emergency response after 9/11: the potential of real-time 3D GIS for quick emergency response in micro-spatial environments

Computers, Environment and Urban Systems, Volume 29, Issue 2, January 2005, Pages 93-113
Kwan, M.-P.; Lee, J.
[Cited by SciVerse Scopus \(52\)](#)

18. The use of spatial analytical techniques to explore patterns of fire incidence: A South Wales case study

Computers, Environment and Urban Systems, Volume 31, Issue 6, January 2007, Pages 623-647
Corcoran, J.; Higgs, G.; Brunsdon, C.; Ware, A.; Norman, P.
[Cited by SciVerse Scopus \(7\)](#)

19. Visualising space and time in crime patterns: A comparison of methods

Computers, Environment and Urban Systems, Volume 31, Issue 1, January 2007, Pages 52-75
Brunsdon, C.; Corcoran, J.; Higgs, G.
[Cited by SciVerse Scopus \(15\)](#)

20. GIS-based decision support for solar energy planning in urban environments

Computers, Environment and Urban Systems, Volume 25, Issue 6, January 2001, Pages 579-603
Rylatt, M.; Gadsden, S.; Lomas, K.
[Cited by SciVerse Scopus \(13\)](#)

21. From spatial interaction data to spatial interaction information? Geovisualisation and spatial structures of migration from the 2001 UK census

Computers, Environment and Urban Systems, Volume 33, Issue 3, January 2009, Pages 161-178
Rae, A.
[Cited by SciVerse Scopus \(8\)](#)

22. A GPS/GIS method for travel mode detection in New York City

Computers, Environment and Urban Systems
Gong, H.; Chen, C.; Bialostozky, E.; Lawson, C.T.

23. Multilayer hybrid visualizations to support 3D GIS

Computers, Environment and Urban Systems, Volume 32, Issue 4, January 2008, Pages 278-292
Brooks, S.; Whalley, J.L.
[Cited by SciVerse Scopus \(8\)](#)

24. Characterization and mapping of dwelling types for forest fire prevention

Computers, Environment and Urban Systems, Volume 33, Issue 3, January 2009, Pages 224-232
Lampin-Maillet, C.; Jappiot, M.; Long, M.; Morge, D.; Ferrier, J.P.
[Cited by SciVerse Scopus \(4\)](#)

25. Generating web-based 3D City Models from OpenStreetMap: The current situation in Germany

Computers, Environment and Urban Systems, Volume 34, Issue 6, January 2010, Pages 496-507
Over, M.; Schilling, A.; Neubauer, S.; Zipf, A.
[Cited by SciVerse Scopus \(5\)](#)

Scopus

Overview of the most often cited articles published since 2009 in [Scopus](#).

| Rank/cited | Details | Link |
|---------------------------|---|---|
| Rank: 1 Cited 26 times | Geospatial Cyberinfrastructure: Past, present and future Yang, C., Raskin, R., Goodchild, M., Gahegan, M. 2010 Computers, Environment and Urban Systems 34 (4), pp. 264-277 | http://dx.doi.org/10.1016/j.compenvurbsys.2010.04.001 |
| Rank: 2 Cited 22 times | A GIS-based back-propagation neural network model and its cross-application and validation for landslide susceptibility analyses Pradhan, B., Lee, S., Buchroithner, M.F. 2010 Computers, Environment and Urban Systems 34 (3), pp. 216-235 | http://dx.doi.org/10.1016/j.compenvurbsys.2009.12.004 |
| Rank: 3 Cited 18 times | Modeling urban growth using a variable grid cellular automaton Vliet, J.v., White, R., Dragicevic, S. 2009 Computers, Environment and Urban Systems 33 (1), pp. 35-43 | http://dx.doi.org/10.1016/j.compenvurbsys.2008.06.006 |
| Rank: 4 Cited 12 times | Abstract representations for interactive visualization of virtual 3D city models Glander, T., Döllner, J. 2009 Computers, Environment and Urban Systems 33 (5), pp. 375-387 | http://dx.doi.org/10.1016/j.compenvurbsys.2009.07.003 |
| Rank: 5 Cited 12 times | Urbanization in India - Spatiotemporal analysis using remote sensing data Taubenböck, H., Wegmann, M., Roth, A., Mehl, H., Dech, S. 2009 Computers, Environment and Urban Systems 33 (3), pp. 179-188 | http://dx.doi.org/10.1016/j.compenvurbsys.2008.09.003 |
| Rank: 6 Cited 11 times | Implementation of a dynamic neighborhood in a land-use vector-based cellular automata model Moreno, N., Wang, F., Marceau, D.J. 2009 Computers, Environment and Urban Systems 33 (1), pp. 44-54 | http://dx.doi.org/10.1016/j.compenvurbsys.2008.09.008 |
| Rank: 7 Cited 9 times | Community-based geoportals: The next generation? Concepts and methods for the geospatial Web 2.0 De Longueville Bertrand, B. 2010 Computers, Environment and Urban Systems 34 (4), pp. 299-308 | http://dx.doi.org/10.1016/j.compenvurbsys.2010.04.004 |
| Rank: 8 Cited 9 times | High-performance computing for the simulation of dust storms Xie, J., Yang, C., Zhou, B., Huang, Q. 2010 Computers, Environment and Urban Systems 34 (4), pp. 278-290 | http://dx.doi.org/10.1016/j.compenvurbsys.2009.08.002 |
| Rank: 9 Cited 8 times | Quantifying rooftop solar photovoltaic potential for regional renewable energy policy Wiginton, L.K., Nguyen, H.T., Pearce, J.M. 2010 Computers, Environment and Urban Systems 34 (4), pp. 345-357 | http://dx.doi.org/10.1016/j.compenvurbsys.2010.01.001 |
| Rank: 10 Cited 8 times | Spatial data mining and geographic knowledge discovery-An introduction Mennis, J., Guo, D. 2009 Computers, Environment and Urban Systems 33 (6), pp. 403-408 | http://dx.doi.org/10.1016/j.compenvurbsys.2009.11.001 |
| Rank: 11 Cited 8 times | Revealing the physics of movement: Comparing the similarity of movement characteristics of different types of moving objects Dodge, S., Weibel, R., Forootan, E. 2009 Computers, Environment and Urban Systems 33 (6), pp. 419-434 | http://dx.doi.org/10.1016/j.compenvurbsys.2009.07.008 |
| Rank: 12 Cited 8 times | Performance evaluation of bus lines with data envelopment analysis and geographic information systems Lao, Y., Liu, L. 2009 Computers, Environment and Urban Systems 33 (4), pp. 247-255 | http://dx.doi.org/10.1016/j.compenvurbsys.2009.01.005 |
| Rank: 13 Cited 8 times | Evolving rank-size distributions of intra-metropolitan urban clusters in South China Fragkias, M., Seto, K.C. 2009 Computers, Environment and Urban Systems 33 (3), pp. 189-199 | http://dx.doi.org/10.1016/j.compenvurbsys.2008.08.005 |
| Rank: 14 Cited 8 times | From spatial interaction data to spatial interaction information? Geovisualisation and spatial structures of migration from the 2001 UK census Rae, A. 2009 Computers, Environment and Urban Systems 33 (3), pp. 161-178 | http://dx.doi.org/10.1016/j.compenvurbsys.2009.01.007 |

| | | |
|---------------------------|---|---|
| Rank: 15 Cited 8 times | Integrating earth observation and GIScience for high resolution spatial and functional modeling of urban land use Aubrecht, C., Steinnocher, K., Hollaus, M., Wagner, W. 2009 Computers, Environment and Urban Systems 33 (1), pp. 15-25 | http://dx.doi.org/10.1016/j.compenvurbsys.2008.09.007 |
| Rank: 16 Cited 7 times | A virtual globe-based 3D visualization and interactive framework for public participation in urban planning processes Wu, H., He, Z., Gong, J. 2010 Computers, Environment and Urban Systems 34 (4), pp. 291-298 | http://dx.doi.org/10.1016/j.compenvurbsys.2009.12.001 |
| Rank: 17 Cited 7 times | Representing and negotiating uncertain geospatial concepts - Where are the exurban areas? Ban, H., Ahlqvist, O. 2009 Computers, Environment and Urban Systems 33 (4), pp. 233-246 | http://dx.doi.org/10.1016/j.compenvurbsys.2008.10.001 |
| Rank: 18 Cited 7 times | Using kernel density function as an urban analysis tool: Investigating the association between nightlight exposure and the incidence of breast cancer in Haifa, Israel Kloog, I., Haim, A., Portnov, B.A. 2009 Computers, Environment and Urban Systems 33 (1), pp. 55-63 | http://dx.doi.org/10.1016/j.compenvurbsys.2008.09.006 |
| Rank: 19 Cited 6 times | Design and implementation of a web-based platform to support interactive environmental planning Ghaemi, P., Swift, J., Sister, C., Wilson, J.P., Wolch, J. 2009 Computers, Environment and Urban Systems 33 (6), pp. 482-491 | http://dx.doi.org/10.1016/j.compenvurbsys.2009.05.002 |
| Rank: 20 Cited 6 times | Feature pruning by upstream drainage area to support automated generalization of the United States National Hydrography Dataset Stanislowski, L.V. 2009 Computers, Environment and Urban Systems 33 (5), pp. 325-333 | http://dx.doi.org/10.1016/j.compenvurbsys.2009.07.004 |

Measurements per 04 Jan 2012

Author Feedback Programme

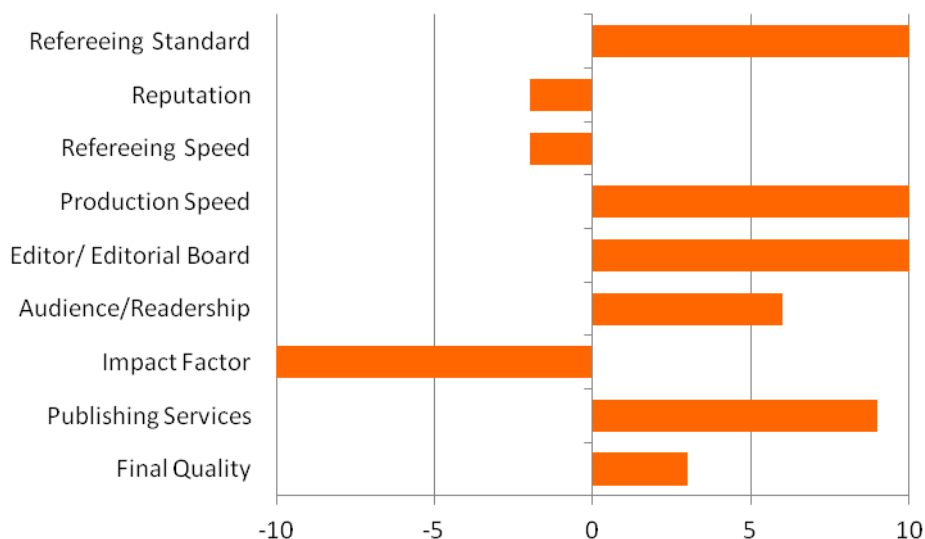
The Author Feedback Program is a continuous research program monitoring the performance of Elsevier's primary journals. It allows us to closely monitor author opinion and thus journal performance. Authors are invited to rate a number of statements concerning their publishing experience. These statements are grouped into areas, including reputation, peer review, production speed, publishing services, the editorial board and impact factor.

Competitor Titles

| Journal | Count |
|---|-------|
| Environment and Planning B: Planning and Design | 3 |
| International Journal of Geographical Information Science | 3 |
| Agriculture, Ecosystems and Environment | 1 |
| Annals of the Association of American Geographers | 1 |
| Cartographic Journal | 1 |
| Computers and Geosciences | 1 |
| Geoderma | 1 |
| Geoinformatica | 1 |
| Geomorphology | 1 |
| Journal of Geographical Systems | 1 |
| Landscape and Urban Planning | 1 |
| Networks and Spatial Economics | 1 |
| Remote Sensing of Environment | 1 |

Author Feedback Programme - Benchmarking performance

We also ask the author to rate another journal in which they have recently published. We then compare the score for each area or factor for *Computers, Environment and Urban Systems* against the average of all other titles. The "average", which is a convenient benchmark, is zero on the chart. Scores above zero mean for that area, *Computers, Environment and Urban Systems* is rated higher than average (scores above 5 would place *Computers, Environment and Urban Systems* in the top third of journals). Conversely, factor scores below zero, mean for that area, *Computers, Environment and Urban Systems* is rated lower than average (scores below -5 would place *Computers, Environment and Urban Systems* in the bottom third of journals).



Measurements per September 2011

Journal Score

The nine factor scores are weighted according to their importance, and used to calculate a composite journal score. This score is then compared to the journal scores of other journals in which the author also recently published.

Note: The maximum potential journal score is 100, but in general, scores vary between 50 and 90. The composite rating score for *Computers, Environment and Urban Systems* and the most frequently mentioned "other" journals (or their more-year average if available) are charted below.

Reputation

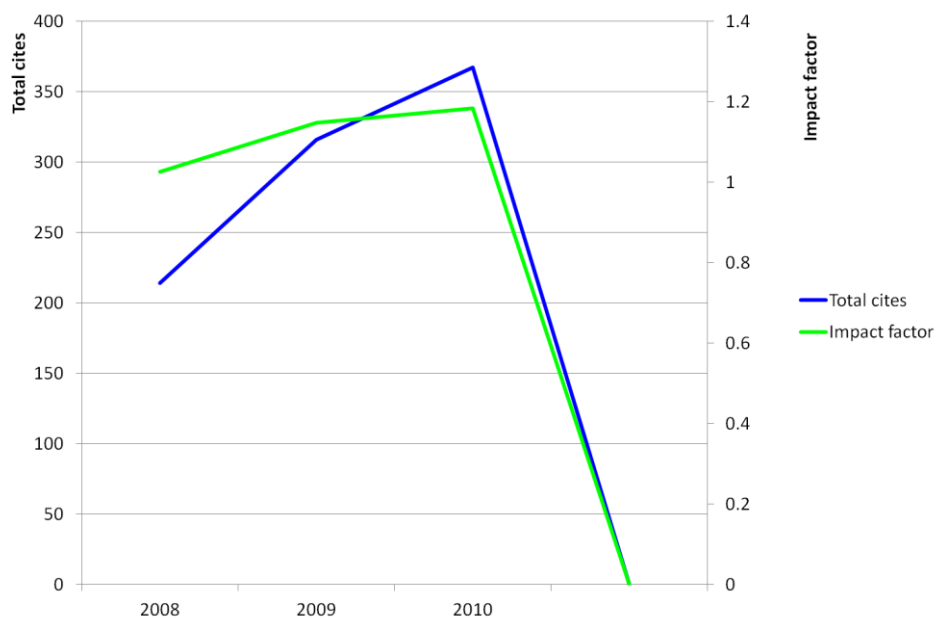
Authors agreeing to the following statements.

- Journal has good coverage by abstracting and indexing services.
- My colleagues think highly of this journal.
- The last paper I published in this journal is amongst my best work.
- I will submit articles to this journal again.

Bibliometrics

Bibliometric data from *Journal Citation Reports®*, published by Reuters Thomson, Total [cites](#) (The total number of citations to the journal in the JCR year), [impact factor](#), number of articles (The total number of articles published in the journal in the JCR year. An article is any citable item).

| Year | Total cites | Impact factor | Articles |
|------|----------------|------------------|----------|
| 2008 | 214 | 1.025 | 39 |
| 2009 | 316 | 1.147 | 43 |
| 2010 | 367 | 1.183 | 45 |



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Abstract

Highlights

Keywords

1. Introduction

2. Related work

3. Methods

3.1. A flexible information architecture for agent movement

3.1.1. Memory

3.1.2. Timing

3.2. Software overview

3.3. Movement by path-planning

Computers, Environment and Urban Systems

Volume 36, Issue 1, January 2012, Pages 1–17

An extensible simulation environment and movement metrics for testing walking behavior in agent-based models

Paul M. Torrens^a, Atsushi Nara^a, Xun Li^a, Haojie Zhu^a, William A. Griffin^b, Scott B. Brown^c

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<http://dx.doi.org/10.1016/j.compenvurbysys.2011.07.005>, How to Cite or Link Using DOI

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Supplementary content

Other files (1)

Supplementary data 1. Appendix 1: Movement metrics for simulated agent paths.

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Supporting the Peer Review Process

1. ABOUT ELSEVIER

1.1 A Short History of Elsevier

Whereas historians have recorded science and medicine's key moments of progress – from Galileo's celestial revelations to Fleming's discovery of penicillin to the recent identification of SARS as a *Coronavirus* – few have taken the time to examine the role that publishers have played in the history of science.

Given that 2005 marked the 125th birthday of Elsevier and the 425th anniversary of the publishing house of Elsevier from which the modern company takes its name, the time seems right to redress that imbalance and reflect on the myriad ways in which Elsevier has played a role in the history of science over the last 128 years, in that time Elsevier has evolved from a small Dutch publishing house devoted to the promulgation of classical scholarship to an international multimedia publishing company that currently provides over 20,000 titles and products to science and healthcare communities worldwide.

Elsevier's history is one of a series of collaborations in the effort to advance science and health. The fruits of the collaboration between Elsevier and the eclectic group of scientific visionaries that it has published – ranging from Jules Verne to Stephen W. Hawking – are obvious. Less obvious, but no less important are the cumulative efforts of the men and women who have dedicated their lives to disseminating and using scientific and medical knowledge: the editors, the printers, the librarians, the nurses, the doctors, the engineers, the information specialists, and the business people who coordinate the effort. Last but not least, Elsevier has enjoyed a number of crucial relationships with other great science publishers – North Holland, Elsevier Medica, Pergamon, Mosby, W.B. Saunders, Churchill Livingstone and Academic Press, to name but a few of the companies that are now part of the Elsevier family, bringing with them long and rich histories of their own. As the company moves forward into the new millennium, its founding motto seems more apt than ever: *Non Solus* (not alone).

Above: 'Le Pottier François', printed in 1655 by Louis and Daniel Elzevir

The use of the word 'Elzevir' as a noun describing a 'pocket-book' sized collector's edition of the classics became quite commonplace in the educated parlance of the late nineteenth century.

2. ABOUT PEER REVIEW

2.1. What is Peer Review?

Today, validation by peers and publication in a scientific journal continues to be the method through which authors register, validate, disseminate and archive their discoveries and results. The publication process and the speed at which articles are peer reviewed and published are key elements in the appropriate accreditation of scientific findings.

The peer review process is an essential part of the publishing process. It validates and confirms a researcher's work and establishes a method through which work can effectively be evaluated.

Although in recent years the peer review process has attracted some criticism, it remains the only widely accepted method for research validation and a cornerstone of the scientific publishing process.

Elsevier, like most scientific publishing companies, relies on effective **peer review** processes to not only uphold the quality and validity of individual articles, but also the overall integrity of the journals we publish.

2.2. Who Are Reviewers?

Most reviewers are themselves authors, researchers, or sometimes, editors in their own right. Reviewers are in fact colleagues and fellow scientists who wish to directly contribute an integral part of the scientific process. With this in mind, reviewers play an essential part in science, and in scholarly publishing. For more than **300 years**, scientists and scholars have relied upon peer review to validate research, engage other specialists in the support of submitted work, and increase networking possibilities within specific specialist communities.

2.3. Why Reviewers Review?

The peer review process allows authors and editors an opportunity to use and develop their own expertise in a number of significant ways. By assessing the quality and validity of another author's work, within the same area of expertise, a reviewer:

- Ensures the continued rigorous standards of the scientific process; the peer-review system has been in place for centuries and each generation of researchers engaged in the process contributes to the ever-increasing wealth of scientific information.
- Upholds the integrity of the journal, by identifying invalid research, as well as the reviewer helps the journal maintain its quality and standards.
- Fulfills a sense of scientific obligation to the community and their own area of concentration.
- Establishes relationships with reputable colleagues and their affiliated journals, and may also increase further opportunity to be invited to join an Editorial Board.
- Reciprocates professional courtesy. Typically authors and reviewers are often interchangeable roles: in assisting an author with their paper, reviewers 'repay' the same courtesy they receive when authoring their own papers.
- Establish expertise in and knowledge of the field.
- Increase reputation and exposure to key figures in the community.
- Stays current and 'in the loop' with respect to the discipline's latest literature.

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