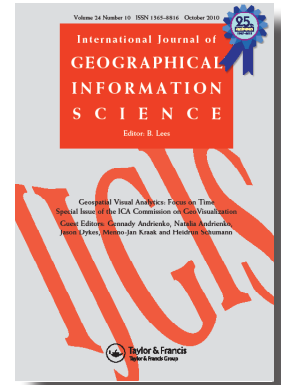# International Journal of
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IJGISc has been running for 25 volumes now, initially as the International Journal of Geographical Information Systems, then as the International Journal of Geographical Information Science. During that time it has, as intended, published some seminal papers. Surprisingly, because some of these are older, newcomers to the field are often unaware of them. This may be because they have no access to older volumes of the journal, or because they have not yet 'discovered' them. Some of them, such as Max Egenhofer's 'Point-Set Topological Spatial Relations' paper, are very highly cited. Others, like Mike Hutchinson's 'Interpolating Mean Rainfall Using Thin-Plate Smoothing Splines', are referred to much less than they should be. I've put together a group of papers, some of which are classics, and some of which will become so. The topics are deliberately diverse but they all have something in common, they are all pivotal in the discussion that the journal hosts.
No matter what your specialization, you should be familiar with these papers.

Editor: *Brian Lees, University of New South Wales, Australian Defence Force Academy, Australia*

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Point-set topological spatial relations
Authors: Max J. Egenhofer & Robert D. Franzosa: Volume 5, Issue 2 1991 , pages 161 - 174

Loose-coupling a cellular automaton model and GIS: long-term urban growth prediction for San Francisco and Washington/Baltimore
Authors: Keith C. Clarke & Leonard J. Gaydos: Volume 12, Issue 7 November 1998 , pages 699 - 714

Integrating multi-criteria evaluation with geographical information systems
Author: Stephen J. Carver: Volume 5, Issue 3 1991 , pages 321 - 339

Interpolating mean rainfall using thin plate smoothing splines
Author: M. F. Hutchinson: Volume 9, Issue 4 July 1995 , pages 385 - 403

Modelling accessibility using space-time prism concepts within geographical information systems
Author: Harvey J. Miller Volume 5, Issue 3 1991 , pages 287 - 301

Modelling sustainable urban development by the integration of constrained cellular automata and GIS
Authors: Xia Li & Anthony Gar-On Yeh: Volume 14, Issue 2 March 2000 , pages 131 - 152

Fuzzy set approach to assessing similarity of categorical maps
Author: Alex Hagen: Volume 17, Issue 3 April 2003 , pages 235 - 249

Calibration of stochastic cellular automata: the application to rural-urban land conversions
Author: Fulong Wu: Volume 16, Issue 8 December 2002 , pages 795 - 818

Application of fuzzy measures in multi-criteria evaluation in GIS
Authors: Hong Jiang & J. Ronald Eastman: Volume 14, Issue 2 March 2000 , pages 173 - 184

Identity-based change: a foundation for spatio-temporal knowledge representation
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Authors: Michele Crosetto & Stefano Tarantola: Volume 15, Issue 5 July 2001 , pages 415 - 437

The point-radius method for georeferencing locality descriptions and calculating associated uncertainty
Authors: John Wieczorek, Qinghu Guo & Robert Hijmans: Volume 18, Issue 8 December 2004 , pages 745 - 767

Path dependence and the validation of agent-based spatial models of land use
Authors: Daniel G. Brown, Scott Page, Rick Riolo, Moira Zellner & William Rand:
Volume 19, Issue 2 February 2005 , pages 153 - 174

Geographical categories: an ontological investigation
Authors: Barry Smith & David M. Mark: Volume 15, Issue 7 October 2001 , pages 591 - 612

GIS-based multicriteria decision analysis: a survey of the literature
Author: Jacek Malczewski: Volume 20, Issue 7 June 2006 , pages 703 - 726

Event-oriented approaches to geographic phenomena
Author: Michael Worboys: Volume 19, Issue 1 January 2005 , pages 1 - 28

Towards a general theory of geographic representation in GIS
Authors: Michael F. Goodchild; May Yuan; Thomas J. Cova: Volume 21, Issue 3 January 2007 , pages 239 - 260

DEM resolution dependencies of terrain attributes across a landscape
Authors: Y. Deng, J. P. Wilson; B. O. Bauer: Volume 21, Issue 2 January 2007 , pages 187 - 213

Modelling vague places with knowledge from the Web
Authors: C. B. Jones, R. S. Purves, P. D. Clough & H. Joho: Volume 22, Issue 10 2008 , pages 1045 - 1065

Sensitivity analysis of spatial models
Authors: Linda Lilburne & Stefano Tarantola: Volume 23, Issue 2 February 2009 , pages 151 - 168

A theoretical approach to the use of cyberinfrastructure in geographical analysis
Authors: Shaowen Wang & Marc P. Armstrong: Volume 23, Issue 2 February 2009 , pages 169 - 193

Integration of GP and GA for mapping population distribution
Authors: Yilan Liao, Jinfeng Wang, Bin Meng & Xinhu Li: Volume 24, Issue 1 January 2010 , pages 47 - 67

Selection of bandwidth type and adjustment side in kernel density estimation over inhomogeneous backgrounds
Author: Xun Shi: Volume 24, Issue 5 May 2010 , pages 643 - 660

Propagating radial waves of travel cost in a grid
Author: Dana Tomlin: Volume 24, Issue 9 September 2010 , pages 1391 - 1413

An extension of GIS-based least-cost path modelling to the location of wide paths
Author: Author: Alexandre B. GonÇalves: Volume 24, Issue 7 July 2010 , pages 983 - 996

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