

BENVGSA3: Geographic Information Systems and Science: Adam Dennett

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[1]

Longley, Paul, Geographic information systems & science, 3rd ed. Hoboken, N.J.: John Wiley & Sons, 2011.

[2]

Geospatial Analysis - spatial and GIS analysis techniques and GIS software. Available: <https://www.spatialanalysisonline.com/HTML/index.html>

[3]

M. Goodchild, 'GIScience and Systems', in International Encyclopedia of Human Geography , 2009. Available: <http://www.sciencedirect.com/science/article/pii/B9780080449104000298#a0005>

[4]

M. Goodchild, 'GIS and Cartography', in International Encyclopedia of Human Geography, 2009. Available: <http://www.sciencedirect.com/science/article/pii/B9780080449104000341>

[5]

Fotheringham, A. Stewart and Rogerson, Peter, The SAGE handbook of spatial analysis. Los Angeles [i.e., Thousand Oaks, Calif.]: SAGE, 2009. Available: <https://doi-org.libproxy.ucl.ac.uk/10.4135/9780857020130?locatt=mode:legacy>

[6]

Monmonier, Mark S., How to lie with maps, 2nd ed. Chicago: University of Chicago Press, 1996.

[7]

O. Huisman and R. de By, Principles of Geographic Information Systems (4th Edition). ITC Educational Textbook, 2009. Available:
http://www.itc.nl/library/papers_2009/general/PrinciplesGIS.pdf

[8]

P. A. Burrough and R. McDonnell, Principles of geographical information systems, vol. Spatial information systems and geostatistics. Oxford: Oxford University Press, 1998.

[9]

M. M. Fischer and A. Getis, Handbook of applied spatial analysis: software tools, methods and applications. Heidelberg: Springer, 2009. Available:
<http://www.vlebooks.com/vleweb/product/openreader?id=UCL&isbn=9783642036477>

[10]

Fotheringham, A. Stewart, Brunsdon, Chris, and Charlton, Martin, Quantitative geography: perspectives on spatial data analysis. London: Sage, 2000. doi: 10.4135/9781849209755

[11]

Krygier, John and Wood, Denis, Making maps: a visual guide to map design for GIS, 2nd ed. New York: Guilford, 2011.

[12]

Pickles, John, Ground truth: the social implications of geographic information systems, vol. Mappings. New York: Guilford Press, 1995.

[13]

Wood, Denis, Fels, John, and Krygier, John, Rethinking the power of maps. New York: Guilford Press, 2010.

[14]

Longley, Paul, Geographic information systems & science, 3rd ed. Hoboken, N.J.: John Wiley & Sons, 2011.

[15]

Rees, P. H., The census data system. Chichester: Wiley, 2002.

[16]

Schuurman, Nadine, GIS: a short introduction, vol. Short introductions to geography. Malden, MA.: Blackwell, 2004.

[17]

Steinberg, Steven J. and Steinberg, Sheila L., GIS: geographic information systems for the social sciences : investigating space and place. Thousand Oaks: SAGE, 2006. doi: 10.4135/9781452239811

[18]

Martin, David, Geographic information systems: socioeconomic applications, 2nd ed. New York: Routledge, 1996.

[19]

Geospatial Analysis - spatial and GIS analysis techniques and GIS software. Available: <https://www.spatialanalysisonline.com/HTML/index.html>

[20]

M. Goodchild, 'Twenty years of progress: GIScience in 2010'. Available:
<http://www.josis.org/index.php/josis/article/view/32>

[21]

Longley, Paul, Batty, Michael, and University College, London, Advanced spatial analysis: the CASA book of GIS. Redlands, Calif: ESRI Press, 2003.

[22]

M. Haklay, 'How good is volunteered geographical information? A comparative study of OpenStreetMap and Ordnance Survey datasets', vol. 37, no. 4, pp. 682-703, 2010, Available: <http://www.envplan.com/abstract.cgi?id=b35097>

[23]

M. Goodchild, 'GIScience and Systems', in International Encyclopedia of Human Geography , 2009. Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104000298>

[24]

'UK Data Service'. Available: <http://ukdataservice.ac.uk/>

[25]

'data.gov.uk'. Available: <http://data.gov.uk/>

[26]

'Geofabrik - OSM downloads'. Available: <http://download.geofabrik.de/>

[27]

'Planet OSM - Open Street Map downloads'. Available: <http://planet.openstreetmap.org/>

[28]

'Digimap Home Page'. Available: <http://digimap.edina.ac.uk/digimap/home>

[29]

'Eurostat Home'. Available:
<http://epp.eurostat.ec.europa.eu/portal/page/portal/eurostat/home>

[30]

Monmonier, Mark S., How to lie with maps, 2nd ed. Chicago: University of Chicago Press, 1996.

[31]

Dodge, Martin, Kitchin, Rob, and Perkins, C. R., The map reader: theories of mapping practice and cartographic representation. Chichester: Wiley-Blackwell, 2011.

[32]

R. Kitchin and M. Dodge, 'Rethinking Maps', vol. 31, no. 3. Progress in Human Geography. Available:
http://personalpages.manchester.ac.uk/staff/m.dodge/cv_files/pihg_rethinking_maps.pdf

[33]

Brewer, Cynthia A., Designing better maps: a guide for GIS users. Redlands, Calif: ESRI Press, 2005.

[34]

Tufte, Edward R., The visual display of quantitative information, 2nd ed. Cheshire, Conn: Graphics Press, 2001.

[35]

Dorling, Daniel, Newman, M. E. J., and Barford, Anna, *The atlas of the real world: mapping the way we live*. London: Thames & Hudson, 2008.

[36]

J. Harley, 'Deconstructing the map', vol. 26, no. 2, 1989, Available:
<http://quod.lib.umich.edu/p/passages/4761530.0003.008/--deconstructing-the-map?rgn=main;view=fulltext>

[37]

R. Kitchin, J. Gleeson, and M. Dodge, 'Unfolding mapping practices: a new epistemology for cartography', *Transactions of the Institute of British Geographers*, vol. 38, no. 3, pp. 480–496, July 2013, doi: 10.1111/j.1475-5661.2012.00540.x

[38]

A. L. Griffin, 'Color, Mapping', in *International Encyclopedia of Human Geography*, 2009. Available: <http://www.sciencedirect.com/science/article/pii/B9780080449104000158>

[39]

C. Brewer and M. Harrower, 'ColorBrewer: Color Advice for Maps'. Available:
<http://colorbrewer2.org/>

[40]

J. Krygier, 'Making Maps: DIY Cartography | Resources and Ideas for Making Maps'. Available: <http://makingmaps.net/>

[41]

B. Hennig, 'Views of the World | worldmapping beyond mere description'. Available:
<http://www.viewsoftheworld.net/>

[42]

D. Wood and J. Krygier, 'Critical Cartography', in International Encyclopedia of Human Geography, 2009. Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104000183>

[43]

'ArcGIS Resources'. Available: <http://resources.arcgis.com/en/home/>

[44]

P. Spector, Data manipulation with R, vol. Use R! New York: Springer, 2008.

[45]

'ggplot2'. Available: <http://docs.ggplot2.org/current/>

[46]

R. Bivand, E. J. Pebesma, and V. Gómez-Rubio, Applied spatial data analysis with R, vol. Use R! New York: Springer, 2008.

[47]

H. Wickham, ggplot2: elegant graphics for data analysis, vol. Use R! Dordrecht: Springer, 2009.

[48]

W. Chang, R Graphics Cookbook, 1st edition. O'Reilly Media, Inc, 2012. Available:
https://safarivjv.auth0.com/authorize?client_id=UtNi1m1IRXgzYFlwZrhSxell9EDRaL2v&response_type=code&connection=university-college-london&redirect_uri=https://www.safaribooksonline.com/complete/auth0-oauth2/&state=/library/view/-/9781449363086/?ar

[49]

R. Haining, 'The Special Nature of Geographic Data', in The SAGE handbook of spatial analysis, Los Angeles [i.e., Thousand Oaks, Calif.]: SAGE, 2009.

[50]

P. Longley and P. Longley, 'Chapter 3 - Representing Geography', in Geographic information systems & science, 3rd ed. Hoboken, N.J.: John Wiley & Sons, 2011.

[51]

P. Longley, 'Chapter 5 - Georeferencing', in Geographic information systems & science, 3rd ed. Hoboken, N.J.: John Wiley & Sons, 2011.

[52]

'RStudio'. Available: <http://www.rstudio.com/>

[53]

'The R Project for Statistical Computing'. Available: <http://www.r-project.org/>

[54]

F. Kessler, 'Projections', in International Encyclopedia of Human Geography, 2009. Available: <http://www.sciencedirect.com/science/article/pii/B9780080449104000614>

[55]

W. Mackaness and O. Chaudhry, 'Generalization', in International Encyclopedia of Human Geography, 2009. Available: <http://www.sciencedirect.com/science/article/pii/B9780080449104000262>

[56]

'R Tutorials'. Available: http://www.social-statistics.org/?page_id=1085

[57]

'Adam's RPubs website'. Available: http://rpubs.com/adam_dennett

[58]

'Chris Brunsdon's RPubs Website'. Available: <http://rpubs.com/chrisbrunsdon>

[59]

'Nick Bearman's RPubs website'. Available: <http://rpubs.com/nickbearman/>

[60]

'Alex Singleton's RPubs website'. Available: <http://rpubs.com/alexsingleton/>

[61]

Monmonier, Mark S., 'How to Lie With Maps, Chapter 10', in How to lie with maps, 2nd ed. Chicago: University of Chicago Press, 1996.

[62]

P. A. Burrough, R. McDonnell, and P. A. Burrough, Principles of geographical information systems, chapter 9/10, vol. Spatial information systems and geostatistics. Oxford: Oxford University Press, 1998.

[63]

P. A. Burrough and R. McDonnell, 'Principles of geographical information systems - Chapter 10', in Principles of geographical information systems, Oxford: Oxford University Press, 1998.

[64]

S. Fotheringham, 'Quantification, Evidence, Positivism', in Approaches to human geography, London: SAGE, 2006.

[65]

P. Longley and P. Longley, 'Chapter 6 - Uncertainty', in Geographic information systems & science, 3rd ed. Hoboken, N.J.: John Wiley & Sons, 2011.

[66]

D. Wong, 'The modifiable area unit problem (MAUP)', in The SAGE handbook of spatial analysis, Los Angeles [i.e., Thousand Oaks, Calif.]: SAGE, 2009.

[67]

D. Ervin, 'An Introduction to the Modifiable Areal Unit Problem'. Available:
<http://gispopsci.org/maup/>

[68]

J. Pickles, 'Ground Truth - Chapters 1, 3 & 7', in Ground truth: the social implications of geographic information systems, New York: Guilford Press, 1995.

[69]

D. Wong, 'Modifiable Areal Unit Problem', in International Encyclopedia of Human Geography, 2009. Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104004752#a0005>

[70]

D. Sui, 'Ecological Fallacy', in International Encyclopedia of Human Geography, 2009. Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104004223#a0005>

[71]

M. Goodchild, 'First Law of Geography', in International Encyclopedia of Human Geography , 2009. Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104004387#a0005>

[72]

'Chapter 4 - Building Blocks of Spatial Analysis', in Geospatial Analysis - spatial and GIS analysis techniques and GIS software, Available: <http://www.spatialanalysisonline.com/>

[73]

Longley, Paul, 'Geographic Information Systems and Science - Chapters 14 & 15', in Geographic information systems & science, 3rd ed. Hoboken, N.J.: John Wiley & Sons, 2011.

[74]

P. Rogerson, 'Chapter 1', in Statistical methods for geography: a student's guide, 3rd ed. Los Angeles: SAGE, 2010.

[75]

W. Tobler, 'On the First Law of Geography: A Reply', Annals of the Association of American Geographers, vol. 94, no. 2, pp. 304-310, June 2004, doi: 10.1111/j.1467-8306.2004.09402009.x

[76]

H. J. Miller, 'Tobler's First Law and Spatial Analysis', Annals of the Association of American Geographers, vol. 94, no. 2, pp. 284-289, June 2004, doi: 10.1111/j.1467-8306.2004.09402005.x

[77]

D. Z. Sui, 'Tobler's First Law of Geography: A Big Idea for a Small World?', Annals of the Association of American Geographers, vol. 94, no. 2, pp. 269-277, June 2004, doi: 10.1111/j.1467-8306.2004.09402003.x

[78]

'Geo-Refer > Online Geographical Referencing Resources for Social Scientists -- Resources'. Available: <http://www.restore.ac.uk/geo-refer/resources.php>

[79]

D. Dorling, *The 32 stops: lives on London's Central Line*, vol. Penguin lines. London: Penguin, 2013.

[80]

'ArcGIS Help 10.1 - How Spatial Autocorrelation (Global Moran's I) works'. Available: <http://resources.arcgis.com/en/help/main/10.1/index.html#//005p0000000t000000>

[81]

A. D. Cliff and J. K. Ord, *Spatial autocorrelation*, vol. Monographs in spatial and environmental systems analysis. London: Pion, 1973.

[82]

L. Anselin, 'Local Indicators of Spatial Association-LISA', *Geographical Analysis*, vol. 27, no. 2, pp. 93-115, Sept. 2010, doi: 10.1111/j.1538-4632.1995.tb00338.x

[83]

Y. Chen, 'New Approaches for Calculating Moran's Index of Spatial Autocorrelation', *PLoS ONE*, vol. 8, no. 7, 2013, doi: 10.1371/journal.pone.0068336

[84]

M. F. Goodchild, *Spatial autocorrelation*, vol. CATMOG. Norwich: Geo Books, 1986.

[85]

R. P. Haining, 'Spatial Autocorrelation and the Quantitative Revolution', *Geographical Analysis*, vol. 41, no. 4, pp. 364-374, Oct. 2009, doi: 10.1111/j.1538-4632.2009.00763.x

[86]

M. F. Goodchild, 'What Problem? Spatial Autocorrelation and Geographic Information Science', *Geographical Analysis*, vol. 41, no. 4, pp. 411–417, Oct. 2009, doi: 10.1111/j.1538-4632.2009.00769.x

[87]

Y. Lu, 'Spatial Clustering, Detection and Analysis of', in *International Encyclopedia of Human Geography*, 2009. Available: <http://www.sciencedirect.com/science/article/pii/B978008044910400523X#a0005>

[88]

A. P. Field, J. Miles, and Z. Field, *Discovering statistics using R*. Los Angeles: Sage, 2012.

[89]

B. D. Ripley, *Spatial statistics*, vol. Wiley series in probability and mathematical statistics. New York: Wiley, 1981.

[90]

M. A. Kalkhan, *Spatial statistics: geospatial information modeling and thematic mapping*. Boca Raton: CRC, 2011.

[91]

Y. Chun and D. A. Griffith, *Spatial statistics & geostatistics: theory and applications for geographic information science & technology*, vol. SAGE advances in GIST. Los Angeles: SAGE, 2013.

[92]

P. Rogerson, *Statistical methods for geography: a student's guide*, 3rd ed. Los Angeles: SAGE, 2010.

[93]

R. Harris, P. Sleight, and R. Webber, Geodemographics, GIS, and neighbourhood targeting, vol. Mastering GIS. Chichester: Wiley, 2005. Available:
http://scholar.google.co.uk/scholar?q=geodemographics&hl=en&as_sdt=0&as_vis=1&oi=scholart&sa=X&ei=JAK8U7rjlazT7AaljIDICQ&ved=0CB4QgQMwAA

[94]

M. Birkin and G. Clarke, 'Geodemographics', in International Encyclopedia of Human Geography, 2009. Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104000274>

[95]

G. Rushton and C. Tiwari, 'Spatial Filtering/Kernel Density Estimation', in International Encyclopedia of Human Geography, Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104005289#a0005>

[96]

R. Harris and C. Jarvis, Statistics in geography and environmental science. Harlow: Prentice Hall, 2011.

[97]

A. P. Field, J. Miles, and Z. Field, Discovering statistics using R. Los Angeles: Sage, 2012.

[98]

A. S. Fotheringham, C. Brunson, and M. Charlton, Geographically weighted regression: the analysis of spatially varying relationships. Chichester: John Wiley & Sons, 2002.

[99]

A. Páez and D. Wheeler, 'Geographically Weighted Regression', in International Encyclopedia of Human Geography, 2009. Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104004478#a0005>

[100]

J. Pearce, 'Regression, Linear and Nonlinear', in International Encyclopedia of Human Geography, 2009. Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104005071#a0005>

[101]

R. Dunn, 'Building regression models: the importance of graphics', Journal of Geography in Higher Education, vol. 13, no. 1, pp. 15–30, Jan. 1989, doi: 10.1080/03098268908709055

[102]

C. Calder and N. Cressie, 'Kriging and Variogram Models', in International Encyclopedia of Human Geography, 2009. Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104004612#a0005>

[103]

N. Lam, 'Spatial Interpolation', in International Encyclopedia of Human Geography, 2009. Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104005307#a0005>

[104]

D. Unwin, 'Trend Surface Models', in International Encyclopedia of Human Geography, 2009. Available:
<http://www.sciencedirect.com/science/article/pii/B9780080449104005514#a0005>