

HGO4940 GIS - Curriculum (total 703-746 pages)

Books:

Lloyd, C. D. (2010) *Spatial Data Analysis: An Introduction for GIS Users*. Oxford University Press (206p)

Longley, P. A., Goodchild, M. F., Maguire, D. J., & Rhind, D. W. (2011). *Geographic Information Science and Systems, fourth edition (2015)*. USA, John Wiley & Sons, Ltd. Ch. 1-5, 7-9, 11-16. (336p)

~~Cope, M., & Elwood, S. (Eds.). (2009). *Qualitative GIS: a mixed methods approach*. Sage. Ch. 1-5. (93 pages).~~

~~Smith, M. J., Goodchild, M. F. and Longley, P. A. (2013) "Geospatial Analysis The comprehensive guide to principles, techniques and software tools". Free web version available.~~

E-articles:

@Anselin, L. (1995). Local indicators of spatial association—LISA. *Geographical analysis*, 27(2), 93-115 (23p).

@Anselin, L., & Getis, A. (2010). Spatial statistical analysis and geographic information systems. In *Perspectives on Spatial Data Analysis* (pp. 35-47). Springer Berlin Heidelberg. (12p)

~~@Bott, M., & Young, G. (2012). The role of crowdsourcing for better governance in international development. *Praxis: The Fletcher Journal of Human Security*, 27, 47-70. (23 pages)~~

~~@Gleditsch, K. S., & Weidmann, N. B. (2012). Richardson in the information age: Geographic information systems and spatial data in international studies. *Annual Review of Political Science*, 15, 461-481. (20 pages)~~

@Golub, A., & Martens, K. (2014). Using principles of justice to assess the modal equity of regional transportation plans. *Journal of Transport Geography*, 41, 10-20. (11 p)

@Goodchild, M. F. (2011). Scale in GIS: An overview. *Geomorphology*, 130(1), 5-9 (4p)

~~@Goodchild, M. F. (2013). Prospects for a Space-Time GIS: Space-Time Integration in Geography and GIScience. *Annals of the Association of American Geographers*, 103(5), 1072-1077. (5 pages)~~

@Goodchild, M. F. (2014). Twenty years of progress: GIScience in 2010. *Journal of Spatial Information Science*, (1), 3-20. (17p)

@Graziano, M., & Gillingham, K. (2014). Spatial patterns of solar photovoltaic system adoption: the influence of neighbors and the built environment. *Journal of Economic Geography*, 15(4), 815-839 (25p).

@Helbich, M., Böcker, L., & Dijst, M. (2014). Geographic heterogeneity in cycling under various weather conditions: Evidence from Greater Rotterdam. *Journal of Transport Geography*, 38, 38-47 (10p).

@Meng, Y., & Malczewski, J. (2015). A GIS-based multicriteria decision making approach for evaluating accessibility to public parks in Calgary, Alberta. *Human Geographies*, 9(1), 29-41 (13p).

@Orford, S. (2004). Identifying and comparing changes in the spatial concentrations of urban poverty and affluence: a case study of inner London. *Computers, Environment and Urban Systems*, 28(6), 701-717. (17p)

@Salonen, M., & Toivonen, T. (2013). Modelling travel time in urban networks: comparable measures for private car and public transport. *Journal of transport Geography*, 31, 143-153. (11p)

@Sánchez-Lozano, J. M., Teruel-Solano, J., Soto-Elvira, P. L., & García-Cascales, M. S. (2013). Geographical Information Systems (GIS) and Multi-Criteria Decision Making (MCDM) methods for the evaluation of solar farms locations: Case study in south-eastern Spain. *Renewable and Sustainable Energy Reviews*, 24, 544-556. (13p)

@Singh, Y. J., Fard, P., Zuidgeest, M., Brussel, M., & van Maarseveen, M. (2014). Measuring transit oriented development: a spatial multi criteria assessment approach for the City Region Arnhem and Nijmegen. *Journal of Transport Geography*, 35, 130-143 (14p).

@Throndsen, T. (2017) Does the Urban Structure Mobility? A quantitative study of the effects of car ownership, and residential and destination locations on travel behaviour in Greater Oslo. MA-Thesis. University of Oslo. Ch. 3 (34p)

~~@Tollefsen, A. F., Strand, H., & Buhaug, H. (2012). PRIO GRID: A unified spatial data structure. *Journal of Peace Research*, 49(2), 363-374. (11 pages)~~

~~@Weidmann, N. B., & Ward, M. D. (2010). Predicting conflict in space and time. *Journal of Conflict Resolution*, 54(6), 883-901 (8 pages)~~