

HGO4940 - Syllabus/achievement requirements

@ = the text is available online

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)

@Lovelace, R., Nowosad, J., & Muenchow, J. (2019). *Geocomputation with R*. CRC Press. (335p)

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. (12 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 (4 pages)

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

@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).

@Kwan, M. P. (2012). The uncertain geographic context problem. *Annals of the Association of American Geographers*, 102(5), 958-968. (11p)

@Lesage, P. (2008). An Introduction to Spatial Econometrics. *Revue d'économie industrielle*, 123(3), 19-44 (26p)

@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).

@Mennis, J. (2009). *Dasymetric mapping for small area population estimation*. *Geography Compass*, 3, 727-745. (19p)

@Nelson, J. (2020). Multivariate Mapping. The Geographic Information Science & Technology Body of Knowledge (1st Quarter 2020 Edition), John P. Wilson (ed.).

@Nusrat, S., & Kobourov, S. (2016). The state of the art in cartograms. In Computer Graphics Forum (Vol. 35, No. 3, pp. 619-642). (24p)

@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)

@Pereira, R. H. M., Banister, D., Schwanen, T., Wessel, N. (2017). Distributional effects of transport policies on inequalities in access to opportunities in Rio de Janeiro. SSRN, (43p)

@Pereira, R. H., Banister, D., Schwanen, T., & Wessel, N. (2019). Distributional effects of transport policies on inequalities in access to opportunities in Rio de Janeiro. Journal of Transport and Land Use, 12(1), 741-764. (24p)

@Roth, R. E., Woodruff, A. W., & Johnson, Z. F. (2010). Value-by-alpha maps: An alternative technique to the cartogram. The Cartographic Journal, 47(2), 130-140. (11p)

@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).

@Sheppard, E. (2005). Knowledge Production through Critical GIS: Genealogy and Prospects. Cartographica 40(4), 5-21, (17p)

Total: 804 pages