



**Literature for SGER44, GIS: Geographical Information
System for the Social Sciences, Advanced Applications applies
from spring semester 2021**

Literature established by the board of the Department of Human Geography
on 2020-11-03 to apply from 2021-01-18

See appendix.



Literature for SGER44, GIS: Geographical Information System for the Social Sciences, Advanced Applications applies from spring semester 2019

Literature established by the board of the Department of Human Geography on 2020-11-03 to apply from 2021-01-18

Books:

Steinberg, Sheila L. & Steinberg, Steven J. (2015) *GIS research methods*. Incorporating Spatial Perspectives. Esri Press. 409 p.

Gorr, Wilpen L. (2020) GIS Tutorial for ArcGIS Pro 2.6. Environmental Systems Research Institute Inc., U.S., 448 p.

ArcPro Online exercises: ca 300 p.

Assignment 1

Asgary, Ali, Ghaffari, Alireza & Levy, Jason (2010) Spatial and temporal analyses of structural fire incidents and their causes: a case of Toronto, Canada. *Fire Safety Journal*, 45 (1), pp. 44–57, 13 p.

Corcoran, Jonathan, Higgs, Gary, Brunsdon, Chris, Ware, A. & Norman Paul. (2007) The use of spatial analytical techniques to explore patterns of fire incidence: a South Wales case study. *Comput. Environ. Urban Syst.*, 31 (6), Pp. 623–647, 24 p.

DeMotto, Nicole & Davies Caroline P. (2006) A GIS analysis of the Relationship between Criminal Offenses and Parks in Kansas City, Kansas. In: *Cartography and Geographic Information Science*, vol. 33, no. 2, pp. 141-157. 16 p.

Eck, John E., Spencer Chainey, James G. Cameron, Michael Leitner, & Ronald E. Wilson (2005). *Mapping crime: understanding hot spots*. Washington: U.S. Department of Justice Office of Justice Programs. 79 p.

Grubestic, Tony (2006) On the Application of fuzzy Clustering for Crime Hot Spot Detection. In: *Journal of Quantitative Criminology*, vol. 22, no. 1, pp. 77-105, 28 p

Guldåker, Nicklas (2020) Geovisualization and Geographical Analysis for Fire Prevention. *ISPRS International Journal of Geo-Information*, 9(6), 355, 19 p.

Guldåker, Nicklas. & Hallin, Per-Olof. (2014): Spatio-temporal patterns of intentional fires, social stress and socio-economic determinants: A case study of Malmö, Sweden. *Fire Safety Journal* 70: pp 71–80, 9 p.

Weisburd, Davod, Telep, C.W. & Braga, A.A. (2010) *The importance of place in policing* https://www.bra.se/download/18.cba82f7130f475a2f1800022104/1312440785947/2010_importance_of_place.pdf 68 p.

Additional required readings ca 100 pages

Assignment 2

Elwood, Sarah A. (2006). "Critical Issues in Participatory GIS: Deconstructions, Reconstructions, and New Research Directions." *Transactions in GIS* no. 10 (5): 693- 708, 15 p.

Elwood, Sarah, Schuurman, Nadine & Wilson, Matthew W. (2011) Critical GIS. In Nyerges, Timothy L. & Couclelis, Helen & McMaster, Robert (eds.) *The Sage Handbook of GIS and Society*, pp. 87-106. Sage Publication, 20p.(Available as e-book at LUB)

Openshaw, Stan. (1991) "A view on the GIS crisis in geography, or, using GIS to put Humpty Dumpty back together again." *Environment and Planning A* no. 23 (5):621- 628, 7 p.

Schuurman, Nadine. (2000) Trouble in the heartland: GIS and its critics in the 1990s. *Progress in Human Geography* no. 24 (4):569-590, 21p.

Thatcher, Jim E., Bergmann, Luke & O'Sullivan David (eds.) (2018) Special Issue: Speculative and Constructively Critical GIS. *The Canadian Geographer / Le Géographe canadien*. 62 (1), 101 p.

Additional required readings ca 100 pages

Assignment 3

Asgary, Ali, Ghaffari, Alireza & Levy, Jason (2010) Spatial and temporal analyses of structural fire incidents and their causes: a case of Toronto, Canada. *Fire Safety Journal*, 45 (1), pp. 44–57, 13 p.

Corcoran, Jonathan, Higgs, Gary, Brunsdon, Chris, Ware, A. & Norman Paul. (2007): The use of spatial analytical techniques to explore patterns of fire incidence: a South Wales case study. *Comput. Environ. Urban Syst.*, 31 (6), Pp. 623–647, 24 p.

ESRI 2010: *Analyzing 911 response data using Regression*. Retrieved 2015-04-29 from <http://www.arcgis.com/home/item.html?id=71a65d35688a4502b123cbdfc99afdee>, 24 p.

Guldåker, Nicklas. & Hallin, PerOlof. (2014) Spatio-temporal patterns of intentional fires, social stress and socio-economic determinants: A case study of Malmö, Sweden. *Fire Safety Journal* 70: pp 71–80, 9 p.

Koutsias, Nikos Martínez-Fernández, Jesús & Allgöwer, Britta (2010) Do Factors Causing Wildfires Vary in Space? Evidence from Geographically Weighted Regression, GIScience & Remote Sensing, 47:2, 221-240, 19 p.

Špatenková, Olga Virrantaus, Kirsi (2013) Discovering spatio-temporal relationships in the distribution of building fires. *Fire Safety Journal*. 62, Part A, pp. 49-63, 14 p.

Additional required readings ca 100 pages

Total number of pages, ca 1980.

Reference literature

Longley, Paul. A., Goodchild, Mike. F., Maguire, David. J., & Rhind, David. W. (2011) *Geographical information systems and science* / Paul A. Longley. Chichester : Wiley, cop.

Curry, Michael (1998) *Digital Places - Living with Geographic Information Technologies*. Routledge

Guldåker, Nicklas & Tykesson Mona (2014) Social stress och sociala risker i två städer – ett analys exempel, I Ek, R., Gerell M., Guldåker N., Hallin, P-O, Herbert M., Kristofersson Nieminen T., Nilsson, A & Tykesson, M.(eds): *Att laga revor i samhällsväven - om social utsatthet och sociala risker i den postindustriella staden*. Malmö University Publications in Urban Studies 18 (In Swedish).

Fotheringham, A. S., Brunsdon, C., and Charlton, M. E. (2002) *Geographically Weighted Regression: The Analysis of Spatially Varying Relationships*. Wiley, Chichester.

Harley, J. Brian (author), Laxton, Paul (editor) (2001): *The New Nature of Maps: Essays in the History of Cartography*. The John Hopkins University Press.

Kwan, Mei-Po. (2007) Affecting Geospatial Technologies: Toward a Feminist Politics of Emotion. *The Professional Geographer* no. 59 (1): 27-34

McHaffie, Patrick H. (2000) Surfaces: tacit knowledge, formal language, and metaphor at the Harvard Lab for Computer Graphics and Spatial Analysis. *International Journal of Geographical Information Science* no. 14 (8):755-773.

Monmonier, Mark (2018) *How to lie with Maps* Third edition. The University of Chicago Press

Openshaw, Stan. (1992) Further thoughts on geography and GIS: a reply. *Environment and Planning A* no. 24 (4):463-466.

Pickles, John (1995) (ed.): *Ground Truth: The Social Implications of Geographic Information Systems*. The Guilford press.

Schuurman, Nadine, and Geraldine Pratt (2002) Care of the Subject: feminism and critiques of GIS. *Gender, Place and Culture* no. 9 (3):291-299.

Taylor, Peter and M. Overton. (1991) Further thoughts on geography and GIS. *Environment and Planning A* no. 23 (8):1087-1090.

Wilson, Matthew W (2009) Towards a genealogy of qualitative GIS. In Cope Meghan and Elwood, Sarah (eds.) *Qualitative GIS: A Mixed Methods Approach*. London: Sage: 156-170.

Wood, Dennis (1992) *Power of Maps*. The Guilford Press, New York