



## 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 2018-11-06 to apply from 2019-01-21

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### **Books:**

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

ArcGIS exercises (250 p.)

= 659 pages

### **Articles:**

#### *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. & 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](https://www.bra.se/download/18.cba82f7130f475a2f1800022104/1312440785947/2010_importance_of_place.pdf) (68 p.)

### *Assignment 2*

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, (20 p.) (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.)

Pavlovskaya, Marianna (2018) Critical GIS as a tool for social transformation. The Canadian Geographer /Le Géographe canadien 62(1): 40-54 (15 p.)

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

### *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, N. & Hallin, P-O. (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.)

= 403 pages

Total approximately 1062 pages

### **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. 2010. 500 p.

Curry, Michael (1998): *Digital Places - Living with Geographic Information Technologies* – offers a new understanding of GIS--the social impacts of the development and the ethical issues surrounding their use.

Guldåker, Nicklas & Tykesson Mona (2014) Social stress och sociala risker i två städer – ett analysexempel, 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

Fotheringham, A. S., Brunson, 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*

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 (1996): *How to lie with Maps – illustrate the map making process. Combats cartographic illiteracy. It fights cartophobia.*

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

Pickles, John (editor): Ground Truth: The Social Implications of Geographic Information Systems. - address the role of geographic information systems (GIS) in their social context

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 Qualitative GIS: A Mixed Methods Approach, edited by Cope and Elwood, 156-170. London: Sage.

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