



**Litteraturlista för GISU23, GIS: Geografiska
informationssystem - avancerad kurs gällande från och med
vårterminen 2023**

Litteraturlistan är fastställd av Naturvetenskapliga fakultetens
utbildningsnämnd 2022-11-07 att gälla från och med 2022-11-07

Se bilaga.

Course literature for GISU23, GIS: Geographical Information Systems - Advanced Course, valid from spring term 2023

Literature available

The following books and materials will be available (at no cost) as pdf files on Canvas and/or as Internet links. Some free resources are not printable due to copyright restrictions or format of delivery.

- Lund University GIS Centre (various dates). **Theoretical GISA22/GISU23 course material** – Lecture material associated with each topic, and which is found by following links in each module.
- Huisman, O., & de By, R. A. (2009). **Principles of geographic information systems: an introductory textbook**. (ITC Educational Textbook Series; Vol. 1). International Institute for Geo-Information Science and Earth Observation. ISBN: 978-90-6164-269-5 (print).

http://www.itc.nl/library/papers_2009/general/PrinciplesGIS.pdf
[Links to an external site.](#)

- Tempfli, K., Huurneman, G. C., Bakker, W. H., Janssen, L. L. F., Feringa, W. F., Gieske, A. S. M., Grabmaier, K. A., Hecker, C. A., Horn, J. A., Kerle, N., van der Meer, F. D., Parodi, G. N., Pohl, C., Reeves, C. V., van Ruitenbeek, F. J. A., Schetselaar, E. M., Weir, M. J. C., Westinga, E., & Woldai, T. (2009). **Principles of remote sensing: an introductory textbook**. (ITC Educational Textbook Series; Vol. 2). International Institute for Geo-Information Science and Earth Observation. ISBN: 978-90-6164-270-1(print)

http://www.itc.nl/library/papers_2009/general/PrinciplesRemoteSensing.pdf
[Links to an external site.](#)

- de Smith, M. J., Goodchild, M. F., & Longley P. A. (2018-2021). **Geospatial Analysis – A comprehensive Guide to Principles, Techniques and Software Tools, 6th edition**. ISBN: 9781912556038 (print).

Free online version (2021):

<https://www.spatialanalysisonline.com/HTML/index.html>
[Links to an external site.](#)

- Snyder, J. P. (1987): Map projections – a working manual. U.S.G.S. prof. Paper 1395. Washington: United States Government Printing Office.

Free online pdf: <https://pubs.er.usgs.gov/publication/pp1395> [Links to an external site.](#)

- Kresse, W. & Danko, D. M. (eds.). (2012). **Springer Handbook of Geographic Information**. ISBN: 978-3-540-72678-4 (print). Springer Verlag Berlin Heidelberg.

Free online as pdf or epub via Springer: <https://link.springer.com/book/10.1007/978-3-540-72680-7> [Links to an external site.](#)

Also available from Lund University Library on login.

<https://link.springer-com.ludwig.lub.lu.se/book/10.1007%2F978-3-540-72680-7>
[Links to an external site.](#)

If you wish to buy a textbook, we strongly recommend:

Chang, K.T. (2014). **Introduction to Geographic Information Systems, 7th international edition** (or later), McGraw-Hill. ISBN: 9780071314831.

Other good alternative books you might use:

Burrough, P. A., McDonnel, R. A., and Lloyd, C. D. (2015): **Principles of Geographical Information Systems, 3rd edition**. Oxford: Oxford University Press. ISBN: 0198742843, 9780198742845.

Longley, P. A., Goodchild, M. K., Maguire, D. J. and Rhind, D. W. (2015). **Geographical Information Science and Systems, Fourth edition**. New York: John Wiley & Sons. ISBN: 978-1-118-67695-0.

Literature for specific topics

Reading instructions as well as additional various articles will be found at each module.