Department of physical geography and ecosystem science

Literature list
Algorithms in Geographical
Information Systems
Autumn 2022

Main course literature

* Harrie, L., 2020. *Lecture notes in GIS algorithms*.

Digital version is available in Canvas. Printed copies must be ordered at latest Wednesday 18 October by sending an e-mail to lars.harrie@nateko.lu.se. The printed copies are bought from the Geolibrary. The compendium costs 70 SEK.

* Springer Handbook of Geographic Information (SP)

Available digitally from a link given in Canvas. Be aware that you have to use a computer connected to Lund University network to reach the book. You are only allowed to use this book for private studies, not for distributing material to someone else.

* Articles specified in the reading instructions. The articles can be found using links in the reading instructions in Canvas.

Recommended extra reading

* Worboys, M. F., and M. Duckham, 2004. *GIS: A Computing Perspective*, 2nd edition. Taylor & Francis.

Bought at a bookstore or via Internet

* Xiao, N., 2016. *GIS Algorithms*, Sage.

* Think Python by Allen B. Downey. Found at a link provided in Canvas (Make sure you use the 2nd edition for Python 3.x)

* Matlab - a practical Introduction to Programming and Problem Solving.