



## **Literature for NGEN26, Geomatics: Web GIS applies from autumn semester 2023**

**Literature established by Study programmes board, Faculty of Science on  
2021-05-24 to apply from 2021-05-24**

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See appendix.

## Course literature for NGEN26, Geomatics: Web GIS valid from autumn term 2023

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- 1) Stefanakis, E. (2015). An introduction to web mapping and geospatial web services.
- 2) Neumann, A. (2012). Web mapping and web cartography, in Springer handbook of geographic information, Eds.W. Kresse and D. M. Danko, Springer, pp 273-287.
- 3) Maguire, D., Longley, P.A. (2005). The emergence of geoportals and their role in spatial data infrastructures, Computer, Environment and Urban Systems, 29, 1, 3-14.

### Useful links

- 1) <https://www.w3schools.com>
- 2) <https://www.ogc.org/>
- 3) <https://geojson.org/>
- 4) <https://openlayers.org/>
- 5) <http://geoserver.org/>

### Recommended extra literature for those who want to read more about Web GIS and SDI and applications

- 1) Farnaghi, M., Mansourian, A. (2018). [Multi-agent Planning for Automatic Geospatial Web Service Composition in Geoportals](#), ISPRS International Journal of Geo-Information, 7(10), 404.
- 2) Huang, W., Mansourian, A., Abdolmajidi, E., Xu, H., Harrie, L. (2018). [Synchronising Geometric Representations for Map Mashups Using Relative Positioning and Linked Data](#), International Journal of Geographical Information Science (IJGIS), 32 (6), 1117-1137.

- 3) *Mansourian, A., Abdolmajidi, E. (2011). [Investigating the system dynamics technique for the modeling and simulation of the development of spatial data infrastructures](#), International Journal of Geographical Information Science (IJGIS), 25(12), 2001-2023.*
- 4) **Mansourian, A.**, Taleai, M., Fasihi, A. (2011). [A Web-based spatial decision support system to enhance public participation in urban planning process](#), Journal of Spatial Science, 56(2), 269-287.
- 5) *Mansourian, A., Abdolmajidi, E. (2011). [Investigating the system dynamics technique for the modeling and simulation of the development of spatial data infrastructures](#), International Journal of Geographical Information Science (IJGIS), 25(12), 2001-2023.*
- 6) **Mansourian, A.**, Valadan Zoje, M.J., Mohammadzadeh, A. and Farnaghi, M. (2008). [Design and Implementation of an on-Demand Feature Extraction Web Service to Facilitate Development of Spatial Data Infrastructures](#), Journal of Computer, Environment and Urban Systems, 32, 377-385.
- 7) van Loenen, B., **Vancauwenberghe, G.**, **Crompvoets, J.** (2018). Open data exposed, Springer.