



EduServ distance education course: Schema matching, mapping and transformation for INSPIRE

Instructors: Anders Östman (University of Gävle) and Imad Abugessaisa (Future Position X, Gävle)

Target audience: Professionals having a BSc or MSc in surveying engineering. Students at BSc or MSc level in computer science or surveying engineering.

Course objectives: The objective of this course is to provide a basic understanding of XML-based technologies for schema matching, mapping and transformation in the context of the INSPIRE implementation rules.

Course outline: Course outline: The course consists of five learning units as follows.

- Unit 1: Introduction to XML: XML syntax, elements and attributes. DTD, XSL, XPath. XML parsers and editors
- Unit 2: Introduction to GML: Feature schemas, geometry schemas (simple features, Spatial Reference Systems etc)
- Unit 3: Creating source schemas and GML files. VB Scripting, FME, quality control.
- Unit 4: Schema matching and mapping. Concepts, INSPIRE data specifications, translation tables, Altova MapForce, quality control.
- Unit 5: Schema transformation. Tools, performance, quality control.