

## **Spatial application development**

- summary of object oriented paradigm
- introduction to .NET and C# programming
- reading and displaying simple data (text files and pictures)
- reading binary data
- binary elevation data (ddm) reading and displaying
- implementing histogram equalisation for raster data
- satellite image file format (bil) handling
- reading and parsing satellite image file parameters
- reading and displaying multispectral images
- creation of RGB images from any 3 bands

### **Literature:**

Rigaux, Scholl, Voisard: Spatial Databases, With Application to GIS  
Elsevier, 2001, ISBN 9781558605886

Davis, Clodoveu Augusto, Monteiro, Antonio M. V. (Eds.): Advances in Geoinformatics  
VIII Brazilian Symposium on Geoinformatics, GEOINFO 2006, Campos do Jordão (SP),  
Brazil, November 19-22, 2006  
Springer, 2006

### **Suggested literature:**

Christian Nagel, Bill Evjen, Jay Glynn, Karli Watson, Morgan Skinner: Professional C# 2012  
and .NET 4.5,  
[http://en.wikibooks.org/wiki/C\\_Sharp\\_Programming](http://en.wikibooks.org/wiki/C_Sharp_Programming)