“Object-based methods for the analysis of VHR optical satellite data in urban areas” (Nils Wolf)

Remote sensing methods

- Machine learning e.g. random forests, svm, boosting, neural nets
- Data mining: feature selection for transferable rule-based expert systems
- Image segmentation, accuracy assessment
- Optical satellite data: e.g. QuickBird, Ikonos, RapidEye, WorldView2, Landsat

Remote sensing applications

Modeling urban environments
- spatial metrics, urban morphology/form
- Land cover / land use mapping
- Change detection

Forschungsprojekt:
Gaining Additional Urban Space (GAUS) - Detection and valuation of potential areas for inner urban development with remote sensing and GIS