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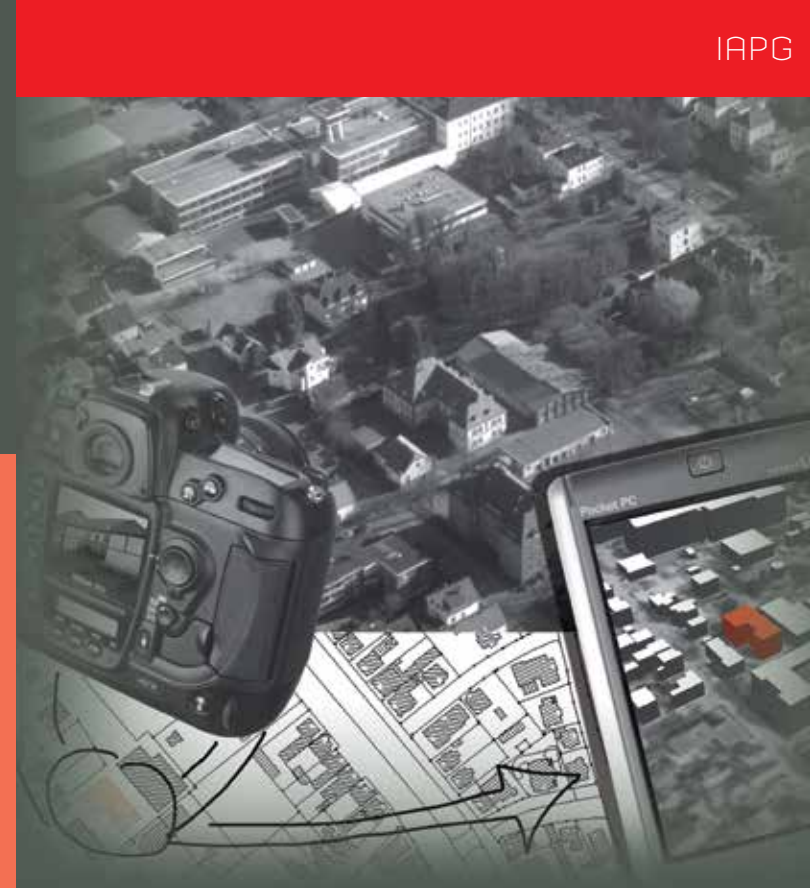
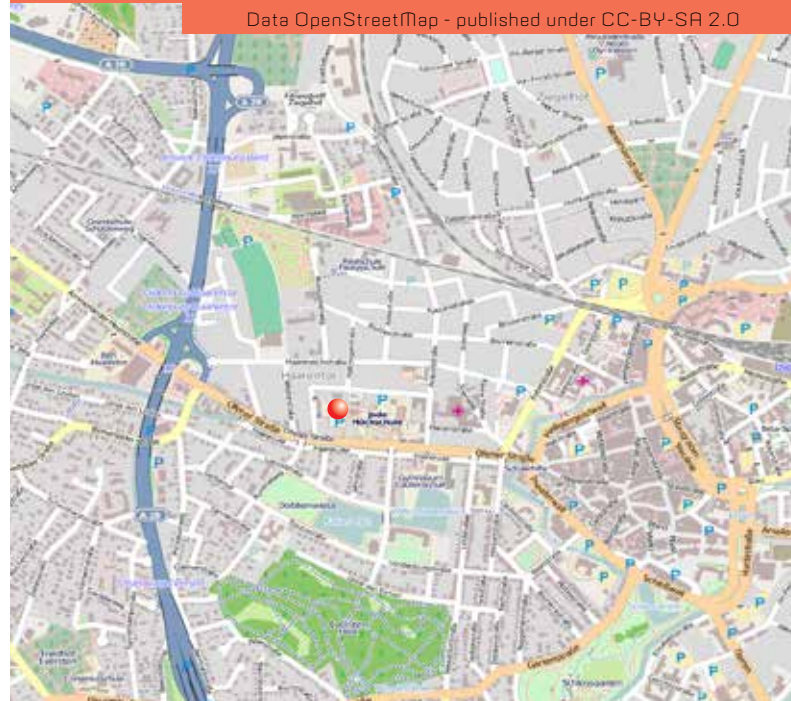


53° 08' 32.43" N  
8° 12' 08.03" O

R<sub>ETRS89</sub>: 32446637.9 m  
H<sub>ETRS89</sub>: 5888401.3 m

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Data OpenStreetMap - published under CC-BY-SA 2.0



INSTITUTE FOR  
APPLIED  
PHOTOGRAMMETRY  
AND GEOINFORMATICS

# PHOTOGRAMMETRY



The photogrammetry group focuses on acquisition, processing and visualization of 3D imaging systems for research and teaching:

- Optical 3D measurement techniques
- Dynamic 3D measurement techniques
- 3D modeling
- Aerial photogrammetry and remote sensing

Current research topics:

- Camera modeling and calibration
- Numerical simulations
- 3D camera techniques
- Combination of photogrammetry and laserscanning
- Thermal photogrammetry
- 3D surface acquisition and matching
- Tracking and navigation

Major application fields:

- Industrial dimensional metrology
- Medical applications and ergonomics
- 3D city modeling for planning and visualization
- Wind and solar energy applications.



# GEOVISUALISATION

In cartography and geovisualisation spatial and temporal information is processed and visualised. The scope of application focuses the optimized representation of complex and heterogeneous information by considering its context.

Current research topics:

- 3D- and 4D-modelling and visualisation of geodata
- Development of new representation standards and types
- System integration and service oriented architectures
- Multimedia information exchange
- Rapid mapping
- Augmented reality

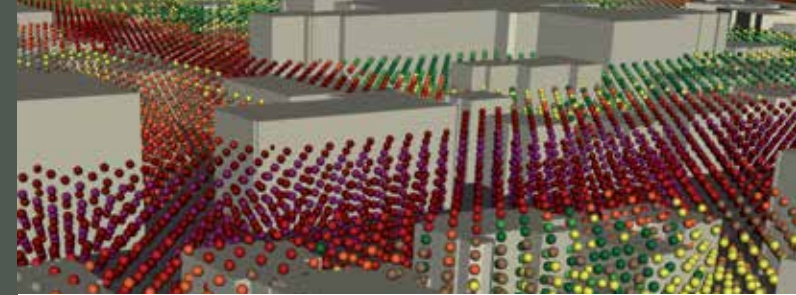
Application fields in focus:

- Renewable energy, transport and distribution networks, asset management
- E-government, planning processes and participation
- Topographic information systems
- Tourism, digital cultural heritage
- 3D city and landscape models



The economic and business GIS team analyses time-spatial structures and processes of economic activities.

- Conception, conduction and completion of decision support studies regarding economic activities
- Comparison of different Geographical Information Systems for economic purposes



# GEOINFORMATICS

The geoinformatics group is specialized in the management and processing of digital spatial and spatiotemporal data. This especially includes:

- modeling of geoinformation
- design of databases
- use of geographic information systems
- design, development and customization of spatial information systems and services

Current research topics:

- geospatial standards and services
- spatial and spatiotemporal databases
- mobile and web mapping
- 3D- and 4D-modeling of spatial data

Application fields in focus:

- tourism
- energy and sustainability
- environmental information and disaster management
- ITS and logistics
- location-based services

# ECONOMICGISBUSINESS

Current research foci:

- Locational analyses
- Statistical research on time-spatial basis
- Quantitative and qualitative data surveys
- Analysis of high resolution socio-demographic market data

Current application foci:

- Spatial and city marketing
- Geographical retail research
- Geographical energy research