

# Contents

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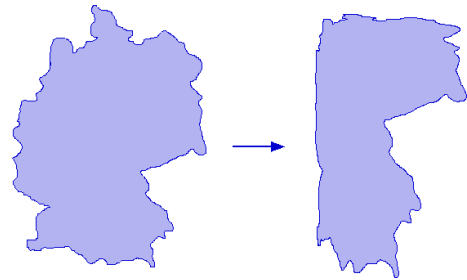
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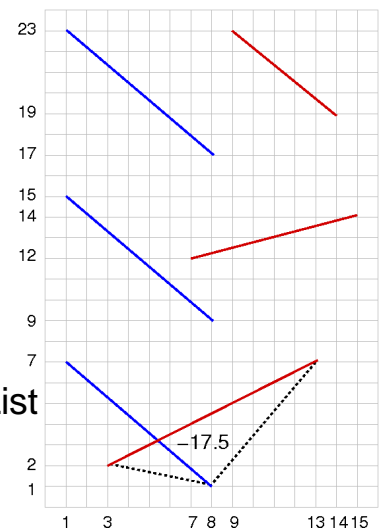
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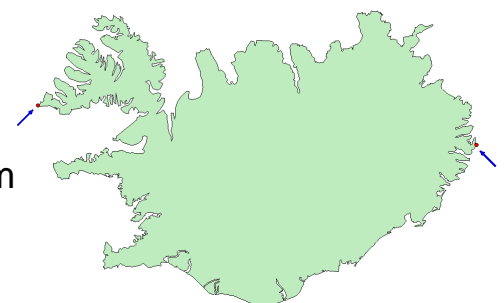
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SQL/MM Part 3: Spatial

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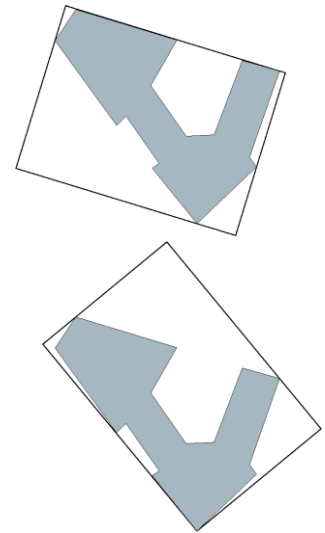
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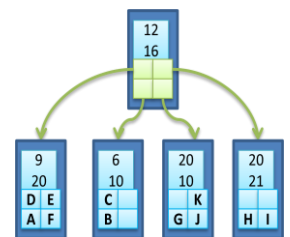
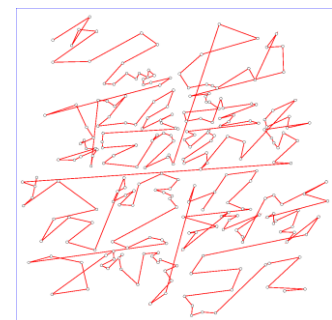
Construction, Delete

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Choice of Split Plane, Application in Computer Graphics

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ISO, OGC, Adv

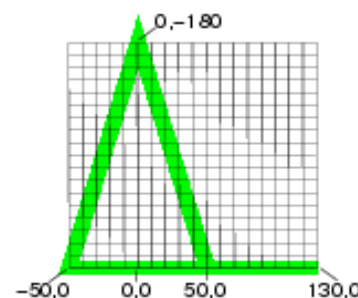
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Embedded SQL, Call Level Interface, JDBC

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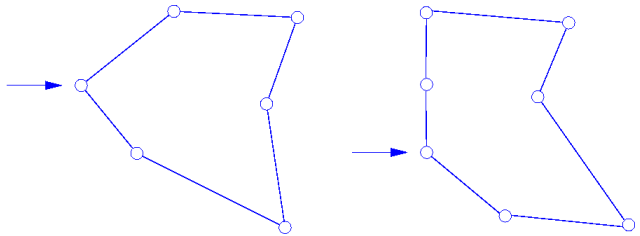
PObject, Polygon Normal Form

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JGeometry, Load, Store

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SAX, DOM, Case Study



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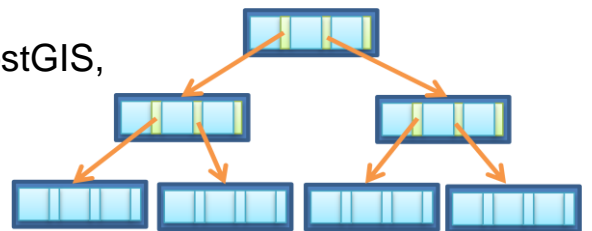
File based, Hybrid, Layer-oriented, Integrated, Spatial Join

### 8.3 Clients and Servers

Common GIS Servers, PostgreSQL → PostGIS, Common GIS Clients

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OpenStreetMap



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### 9.1 Physical Basics

Electromagnetic Waves, Atmospheric Window, Orbits

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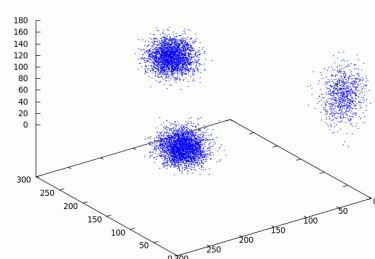
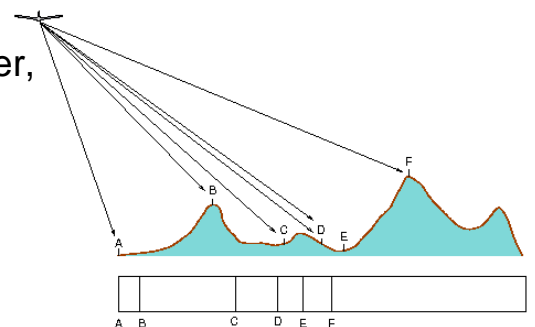
Photographic Systems, Whisk Broom Scanner, Push Broom Scanner, Radar, LIDAR

### 9.3 Image Processing

Geometric Errors, Geometric Corrections, Image Rectification, Image Enhancement

### 9.4 Thematic Classification

Image Interpretation, Multispectral Classification



## 10 Location Based Services

### 10.1 Positioning

GPS, Location Transponder

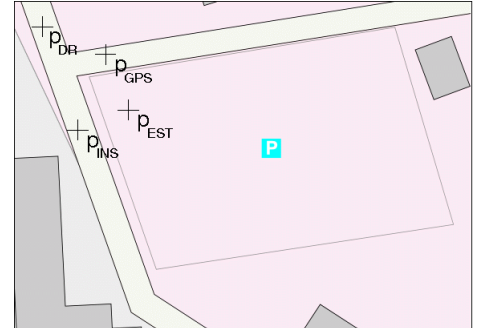
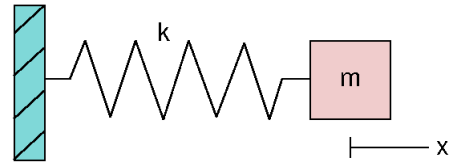
### 10.2 Car Navigation

GDF, MEMS Sensors, Sensor Fusion

### 10.3 Map Matching

### 10.4 Privacy

Quadtree Spatial Cloaking,  
Clique Cloak Algorithm



## 11 Environmental Information Systems

### 11.1 Environmental Data

Example: Forrest Inventory

### 11.2 Collection of Environmental Data

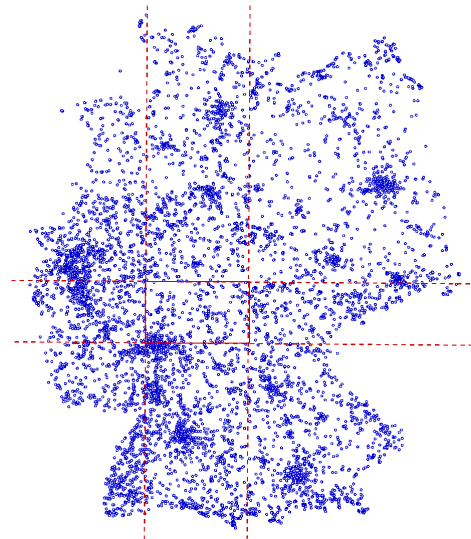
Laser Rangefinder, Field Survey

### 11.3 Monitoring Networks

TAO, ODL

### 11.4 Laboratory Data

Sampling, Spectroscopy,  
Chromatography



## 11 Review and Outlook

### 11.1 Review

### 11.2 Outlook