Dynamic and Customizable Exploitation of Trajectory Data

**MAP MATCHING**

**Objectives**
- Context-aware Map Matching
- Map Matching of un/semi-restricted trajectories

**Methods**
- Movement graph extraction
- Staypoint analysis

**DYNAMIC INDEXING AND VISUALIZATION**

**Objectives**
- Efficient and dynamic trajectory indexing
- Support of various query types

**Methods**
- Novel graph-based indexing data structure
- Heatmap visualization of large trajectory sets

**TRAJECTORY MINING**

**Objectives**
- Driving preference extraction
- Purpose mining

**Methods**
- High-dimensional preference model analysis
- Clustering
- Segmentation and classification

**NAVIGATION & SOCIAL ROUTING**

**Objectives**
- Efficient customizable routes
- Incorporation of historical trajectory data

**Methods**
- Improved preprocessing techniques
- Stitch networks