



In a nutshell:

The project develops a formal framework for adaptive wayfinding assistance systems. This framework will serve to produce a theory of schematic representations for geographic information. We devise representations, specifically schematic maps, to match human conceptualization. This enables the development of assistance systems that adapt to the users' cognitive background. The development of computational models is accompanied by empirical studies; this allows a direct coupling of formal analysis and empirical results.

Topics of research:

- Schematization processes and schematic maps
- Generation of cognitively ergonomic route directions
- Individual wayfinding assistance and personalized maps
- Wayfinding assistance in 3D virtual environments
- Mental encoding of wayfinding information

The Team

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