Abstract

Implement an Intelligent ArcView User Interface Using SNePS

track: New Technology and Technology Integration

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The project is to implement an intelligent user interface between ArcView and SNePS (the semantic processing system). The interface will accept the input command and query in natural language format, transfer it to Avenue, then apply it in ArcView. It will apply two kinds of functions. The first one is the ordinary functions in ArcView, such as add themes, query on themes, and identify features. The second one is spatial reasoning and fuzzy knowledge query. In the second case, we have to tell the system the basic spatial knowledge and fuzzy knowledge, which is also input as natural language.

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