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Opportunities for Knowledge Discovery in Spatio-Temporal Information Systems

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Abstract

Spatial Information Systems and their recent temporal extensions typically store large volumes of geo-referenced information. Having such size, it becomes increasingly difficult to explore their contents with current querying techniques. In this paper, we examine how data mining methods can help users in the analysis of the contents of Spatial and Spatio-Temporal Information Systems. We review existing spatial applications and investigate how they can be extended to deal with time. We also look at new, alternative methods that utilise the inherent structure of spatio-temporal information as well as its rich semantics to derive rules about changes and movement

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