Abstract

Now a day in GIS application fuzzy spatial objects have become extremely important. There have been many research developments on the conceptual description of topological relation between spatial objects. In this paper a formal definition of the computational fuzzy topology is shown which is based on the interior operator and closure operators. In spatial object modeling the interior and exterior boundary are computed based on computational fuzzy topology. An example for determining interior boundary and exterior boundary of flood affected areas of upper Assam based on data collected from Govt. of Assam GOI Directory Assam Tourism NIC ASHA Districts of India.

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Index Terms

Computer Science

Fuzzy Systems
Keywords
Fuzzy topology; Fuzzy spatial objects; closure operator; interior operator