QUALITATIVE AND QUANTITATIVE SPATIOTEMPORAL KNOWLEDGE REPRESENTATION AND REASONING USING POINT GRAPHS*

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ABSTRACT
The paper presents an overview of a formalism, called Point Interval Logic, and its application for temporal and spatial knowledge representation and reasoning. A graph based approach, called Point Graph, is shown to implement the inference mechanism of the logic for both temporal and spatial statements. The formalism handles both qualitative and quantitative aspects of the information. A discussion on some unresolved problems in integrating the two types of information into a single logic concludes the paper.

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