

عنوان مقاله:

Belief Propagation in a Rule-based System Using The Dempster-Shafer Theory

محل انتشار:

یازدهمین کنفرانس مهندسی برق (سال: 1382)

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خلاصه مقاله:

Fusion of spatial remote sensing data (slope, aspect, soil depth and rock permeability) to assess the risk of desertification of a burned forest by an expert system is studied. Belief functions which are assigned to data classes are propagated through expert rules. Uncertainty in the data because of sub-sampling error and uncertainty in the rules are considered during the processes. Experiments show the effectiveness of taking into consideration the uncertainty in data and rules

کلمات کلیدی:

Remote Sensing, Dempster-Shafer Theory, Belief Propagation, Expert Systems

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