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Predictive complex event processing based on evolving Bayesian networks

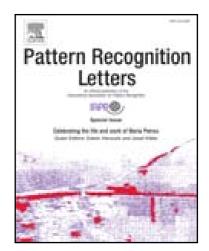
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Highlights

- Bayesian network model uses Gaussian mixture model and EM algorithm for approximate inference.
- Incremental calculation of score metric for updating Bayesian network structure.
- Evolving Bayesian network structure using hill-climbing algorithm
- Hill-climbing algorithms that explores multiple peaks parallel.
- Updating score metrics based on changed edges only.



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