

Accepted Manuscript

Predictive complex event processing based on evolving Bayesian networks

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PII: S0167-8655(17)30148-4
DOI: [10.1016/j.patrec.2017.05.008](https://doi.org/10.1016/j.patrec.2017.05.008)
Reference: PATREC 6814



To appear in: *Pattern Recognition Letters*

Received date: 21 January 2017
Revised date: 3 April 2017

Please cite this article as: Yongheng Wang , Hui Gao , Guidan Chen , Predictive complex event processing based on evolving Bayesian networks, *Pattern Recognition Letters* (2017), doi: [10.1016/j.patrec.2017.05.008](https://doi.org/10.1016/j.patrec.2017.05.008)

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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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