

New Submission

Submission 62

IEA/AIE 2018

News

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Paper 62

Title: Bayesian Learning of Finite Asymmetric Gaussian Mixtures

Paper: (Dec 10, 05:55 GMT)

Asymmetric Gaussian Mixture

Metropolis-Hastings

Author keywords: Gibbs sampling

MCMC

Intrusion detection

agm model (140), asymmetric gaussian mixture (95), acceptance ratio (90), intrusion detection (90), gaussian mixture model (79), component number (70), mixture parameter (70), mixture model (65), bayesian learning process (63), gibbs sampling (60), gaussian

EasyChair keyphrases: mixture (55), proposal distribution (50), synthetic data (50),

learning algorithm (50), metropolis hasting (50), mixture weight pj (47), royal statistical society (47), right standard deviation (47),

euclidean distance (40), bayesian learning (40)

Topics: Machine Learning

Asymmetric Gaussian mixture (AGM) model has been proven to be more flexible than the classic Gaussian mixture model from many aspects. In contrast with previous efforts that have focused on maximum likelihood estimation, this paper introduces a fully

Abstract: maximum likelihood estimation, this paper introduces a fully

Bayesian learning approach using Metropolis-Hastings (MH) within Gibbs sampling method to learn AGM model. We show the merits of the proposed model using synthetic data and a challenging intrusion

detection application.

Submitted: Dec 10, 05:55 GMT

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Student Paper Award Yes

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