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Online Estimation of Discrete, Continuous, and Conditional Joint Densities using Classifier Chains

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Online Resource 2

The performance of the EDDO density estimates depends on the variable ordering of the classifier chains. The following figures show the distribution of 1000 randomly sampled classifier chains on 15 Bayesian networks with 7 nodes.

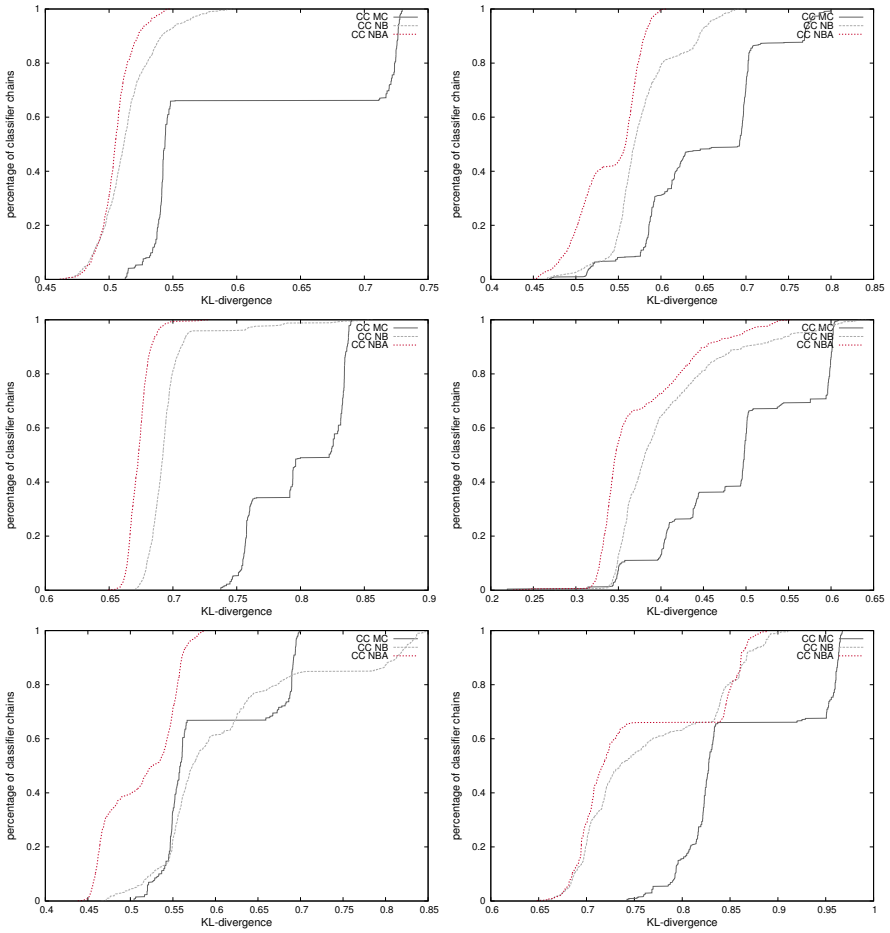

Fig. 1 Each plots shows the performance of 1000 EDDO CC density estimators for a single Bayesian network with 7 nodes. On the x-axis is the KL-divergence, and on the y-axis is the percentage of classifier chains having a smaller or equal KL-divergence.

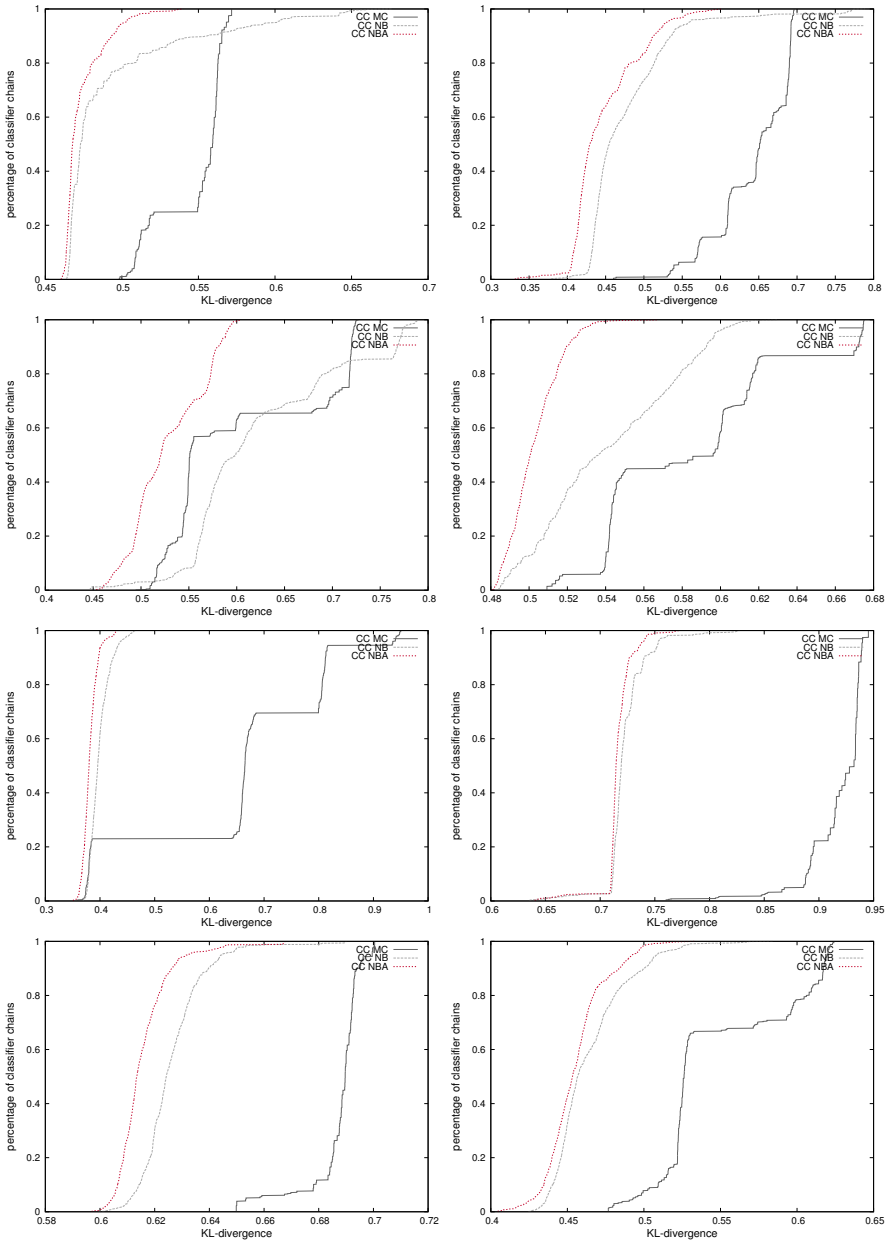

Fig. 2 Each plots shows the performance of 1000 EDDO CC density estimators for a single Bayesian network with 7 nodes. On the x-axis is the KL-divergence, and on the y-axis is the percentage of classifier chains having a smaller or equal KL-divergence.