

Learning optimal independence tests for Bayesian Networks

Anonymous Author(s)

Affiliation

Address

email

Abstract

1 Introduction

2 Related work

Existing independence tests:

- Pearson's χ -squared. The problem is the null hypothesis is independence, but independence is what we're trying to show.

-

Margaritis [2003]

3 Independence testing

Manifold of Independence

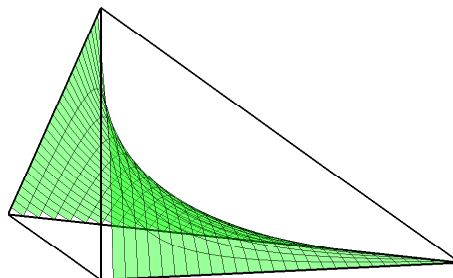


Figure 1: A

054	3.1 Discrete variables formulation
055	
056	3.2 Continuous variables formulation
057	
058	4 Experiments
059	
060	4.1 Classification of Synthetic CPDs
061	
062	4.2 Classification of CPDs from Gene Expression
063	
064	4.3 Synthetic Bayesian networks
065	
066	4.4 Gene expression data
067	
068	5 Discussion
069	
070	References
071	D. Margaritis. <i>Learning Bayesian network model structure from data</i> . PhD thesis, University of Pittsburgh,
072	2003.
073	
074	
075	
076	
077	
078	
079	
080	
081	
082	
083	
084	
085	
086	
087	
088	
089	
090	
091	
092	
093	
094	
095	
096	
097	
098	
099	
100	
101	
102	
103	
104	
105	
106	
107	