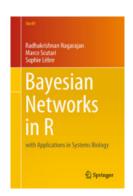
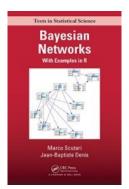
bnlearn - an R package for Bayesian network learning and inference

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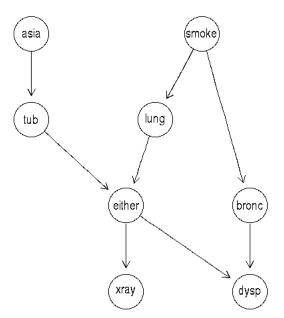


data & R code



data & R code (2nd edition coming soon!)

Small Networks (<20 nodes)

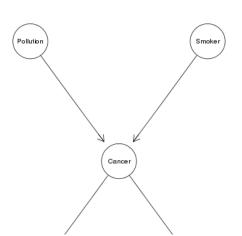


ASIA (sometimes called LUNG CANCER)

Number of nodes: 8 Number of arcs: 8 Number of parameters: 18 Average Markov blanket size: 2.50 Average degree: 2.00 Maximum in-degree: 2

BIF (310B)
DSC (322B)
NET (276B)
RDA (bn.fit) (551B)
RDS (bn.fit) (538B)

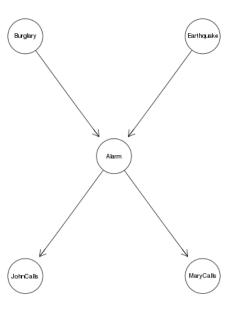
S. Lauritzen, D.
Spiegelhalter. Local
Computation with
Probabilities on
Graphical Structures
and their Application
to Expert Systems
(with discussion).
Journal of the Royal
Statistical Society:
Series B (Statistical
Methodology),
50(2):157-224, 1988.



CANCER

Number of nodes: 5 Number of arcs: 4 Number of parameters: 10 Average Markov blanket size: 2.00 Average degree: 1.60 Maximum in-degree: 2





BIF (288B)
DSC (294B)
NET (256B)
RDA (bn.fit) (520B)
RDS (bn.fit) (508B)

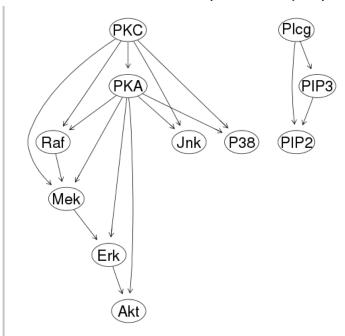
K. B. Korb, A. E. Nicholson. Bayesian Artificial Intelligence, 2nd edition, Section 2.2.2. CRC Press, 2010.

EARTHQUAKE

Number of nodes: 5 Number of arcs: 4 Number of parameters: 10 Average Markov blanket size: 2.00 Average degree: 1.60 Maximum in-degree: 2

BIF (271B)
DSC (282B)
NET (243B)
RDA (bn.fit) (482B)
RDS (bn.fit) (470B)

K. B. Korb, A. E. Nicholson. Bayesian Artificial Intelligence, 2nd edition, Section 2.5.1. CRC Press, 2010.



SACHS

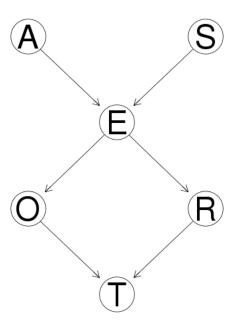
Number of nodes: 11 Number of arcs: 17 Number of parameters: 178 Average Markov blanket size: 3.09 Average degree: 3.09

Maximum in-degree: 3

DSC (1.9kB)
NET (1.7kB)
RDA (bn.fit) (2.4kB)
RDS (bn.fit) (2.4kB)

BIF (1.9kB)

K. Sachs, O. Perez, D. Pe'er, D. A. Lauffenburger and G. P. Nolan. Causal Protein-Signaling Networks Derived from Multiparameter Single-Cell Data. Science, 308:523-529, 2005.



SURVEY

Number of nodes: 6
Number of arcs: 6
Number of
parameters: 21
Average Markov
blanket size: 2.67

Average degree: 2.00

Maximum in-degree: 2

BIF (368B)

DSC (360B)

NET (306B)

RDA (bn.fit) (617B)

RDS (bn.fit) (606B)

M. Scutari and J.-B.

Denis. Bayesian

Networks: with

Examples in R.

Chapman & Hall, 2014.



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