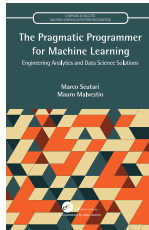
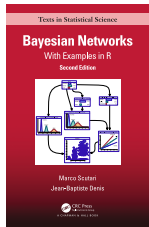


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- [Small Simulation Studies](#)
- [Bayesian Network Repository](#)

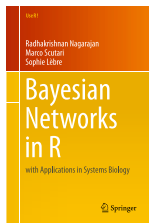
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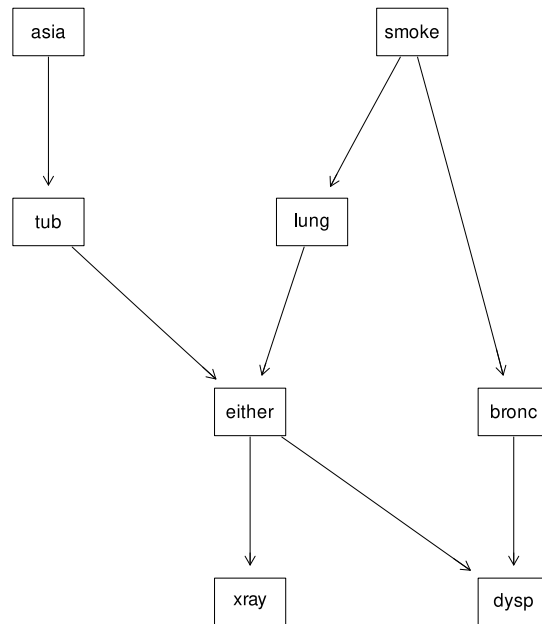


[data & R code](#)



[data & R code](#)

Small Networks (<20 nodes)

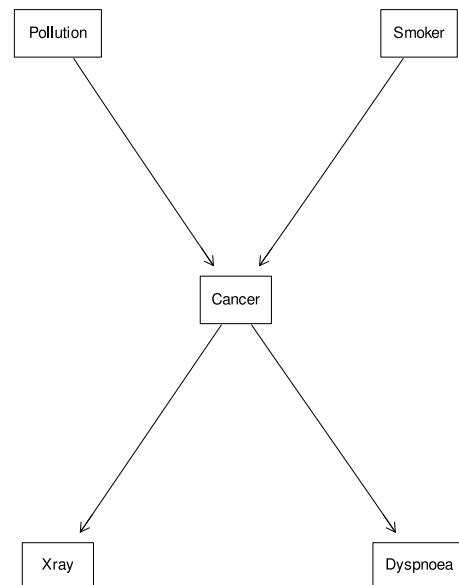


ASIA (sometimes called LUNG CANCER)

Number of nodes: 8
 Number of arcs: 8
 Number of parameters: 18
 Average Markov blanket size: 2.5
 Average degree: 2
 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.

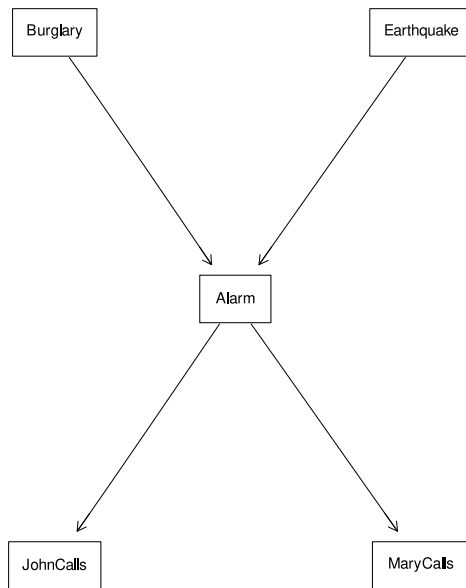


CANCER

Number of nodes: 5
 Number of arcs: 4
 Number of parameters: 10
 Average Markov blanket size: 2
 Average degree: 1.6
 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

Average degree: 1.6

Maximum in-degree: 2

[BIF](#) (271B)

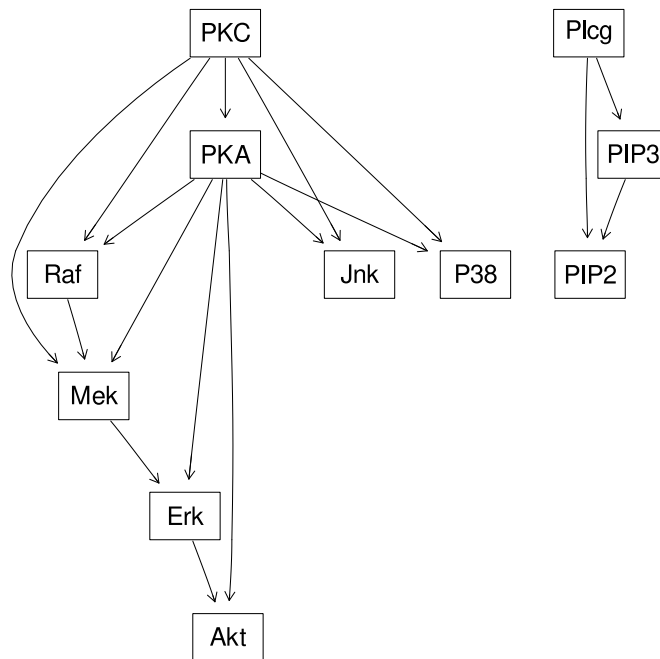
[DSC](#) (282B)

[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

[BIF](#) (1.9kB)

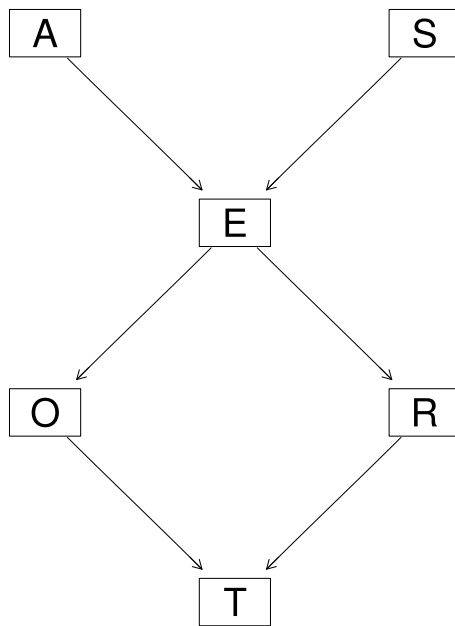
[DSC](#) (1.9kB)

[NET](#) (1.7kB)

[RDA \(bn.fit\)](#) (2.4kB)

[RDS \(bn.fit\)](#) (2.4kB)

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

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, 2nd
edition, 2021.

Last updated on Tue Nov 29 13:13:21 2022 with *bnlearn* 4.9-20221107 and R version 4.2.2 Patched (2022-11-10 r83330) .



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