

Homework 1

M1522.001300 Probabilistic Graphical Models (2016 Fall)

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Date: September 22 Thursday

Fill anything you want to say about your homework.

1 Conditional Independence Properties [15 points]

Fill your answers.

You can insert your figure by using `\begin{figure}`. You can refer your figure by using `\ref{fig:example_figure}`.

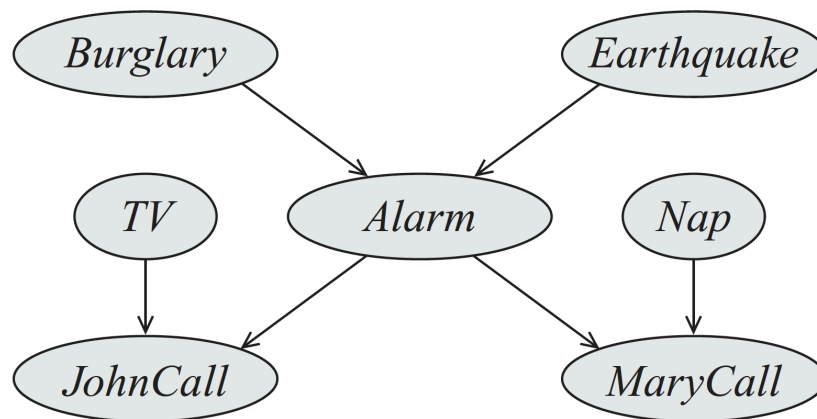


Figure 1: Example Figure

You can enumerate subquestions like this.

1. Enumerate item 1.
2. Enumerate item 2.
3. Enumerate item 3.

You can write your equations by using `\begin{aligned}`. We highly recommend you to use `\newcommand` to simplify your equation in \LaTeX .

$$\mathbf{A} = 12 \tag{1}$$

$$\alpha_{12}^{35} = 1234 \tag{2}$$

$$\beta_1 = 10 \tag{3}$$

You can cite your reference by using `\cite{reference_name}`. For example, cite Koller's PGM book [1] like this.

2 Some snippet for HW2 [5 points]

Step	Variable eliminated	Factors used	Variables involved	New factor
1				
2				
3				
4				
5				
6				
7				

Table 1: A run of variable elimination for the query $P(J)$

References

- [1] Daphne Koller and Nir Friedman. *Probabilistic Graphical Models: Principles and Techniques - Adaptive Computation and Machine Learning*. The MIT Press, 2009.