

37457

Advanced Bayesian Methods

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University of Technology Sydney

Mutual Friendships Exercise

Not counting:

people that you met for the first time
in this class when it started last week

Who in this class do you know by name,
and they know you by name?

Word of the Day:

CLIQUE

Special Type of Clique:

MAXIMAL Clique

Reminder: This Classroom is a...

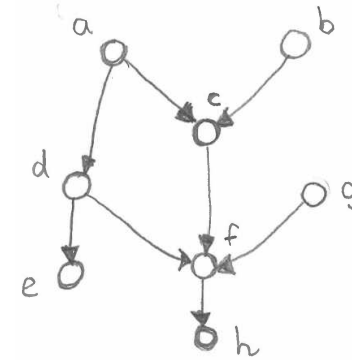
SCREEN-FREE ZONE

Don't forget **NO**:

- switched on mobile phones.
- texting.
- *exting.
- open iPads.
- iPods.
- other iDevices.
- open laptops.
- facebooking.
- X-ing.
- twittering.
- googling.
- snapchatting.
- instagramming.
- google glassing.
- tindering.
- you-tubing.
- tumbling.

Class Exercise

Obtain the **moral graph** of the following DAG:



Exercices

Definition of clique

Maximal cliques

Acyclic vs cyclic

Moralisation

Solution

Step 1: Marry the parents	Step 2: Remove all arrows

Major Goal for this Subject

By Week 6, tool you up to be able to do

ANY*

data analysis, no matter how complex,

– and understand the underlying maths.

* To be qualified later.

Lab Schedule

Wednesdays 11:05-11:55 corresponding to

Class 3

Class 6

Class 9

Class 12

There is no need to carry laptop to other classes.

Path to Achieving Goal

- Draft book chapters of GRAPH THEORY AND STATISTICS by M.P. Wand.
- The R computing environment.
- The JAGS and Stan inference engines and their interfaces with R, known as rjags and rstan.
- **IMPORTANT: no assumed knowledge of any of the above!**

Getting Ready for Laboratory 1

(Next Wednesday, 21st August)

- See subject web-site with instructions about this.
- Ideally achieved before Class 3 of Wednesday 21st August.

Class 3 Location

Recall that during Weeks 1 – 6 we have

ROOM CHANGES EVERY WEEK!

Class 3 is back in

Room 15, Level 2, Building 7

(i.e. next door and where
we held Class 1 last week).