COMP2610/COMP6261 - Information Theory - Sem 2 2018

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Useful Resources and Links

Additional Books

Some of the lectures will contain additional material drawn from different sources. In particular, we will use three additional books:

- Bishop, Christopher (2006). Pattern Recognition and Machine Learning. Springer-Verlag.
- Cover, Thomas and Thomas Joy (2006). *Elements of Information Theory*. Second Edition. Wiley-Interscience.
- Barber, David (2011). *Bayesian Reasoning and Machine Learning*. Cambridge University Press. Available online from here.

Online Resources

There are a number of freely available books and information theory-related web sites:

- Understanding Uncertainty is a site is produced by the University of Cambridge that aims "to help improve the way that uncertainty and risk are discussed in society".
- The first two chapters of Joseph Kadane's Principles of Uncertainty covers most of material on probability we will be using in this course.
- A video of David MacKay's lecture on Information Theory for MLSS 2009
- A series of lectures (with videos) on information theory by David MacKay from earlier this year (2012).

If you are interested in current research in information theory, you could have a look at the IEEE Information Theory Society for links to journals, events, and people working in information theory.

For those of you who want to go back to the source, Shannon's original 1948 paper A Mathematical Theory of Communication is available online and is, even to this day, a very readable treatise on information theory.

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Dashboard

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COMP8260_Sem2_2018

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Participants

Grades

General

Information Theory Discussion Forum

Tutorial group signup

News forum

Course Textbook: Information Theory, Inference, an...

Useful Resources and Links

Learning Expectations

Echo360 Active Learning Platform

2015 Exam

2015 exam with solutions (DO NOT LOOK AT THIS TILL YOU TRY YOURSELF!)

1 2016 exam

2016 exam with solutions (DO NOT LOOK AT THIS UNTIL YOU HAVE TRIED TO ANSWER THE QUESTIONS YORUSELF!)

2017 Exam

2017 exam with solutions (DO NOT LOOK AT THIS UNTIL YOU HAVE TRIED ANSWERING THE QUESTIONS YOURSELF!)

Assignment 1

Topic 1

Topic 2

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COMP6250_Sem1_2018

COMP4660 Sem1 2018

COMP3620_Sem1_2018 COMP2100_Sem1_2018

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