COMP9444 20T3

COMP9444

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COMP9444 Neural Networks and Deep Learning

10a. Review

Assessment

Assessment will consist of:

Assignment 1	30%
Assignment 2	30%
Final Exam	40%

The Final Exam will be available on Moodle.

You will have 2 hours to complete the exam, within the window of 14:00 to 17:00 (Sydney time) on Friday 27 November.

The exam will be open-book.

You MUST complete the exam YOURSELF, without assistance from others, and without assisting others.

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Review

Examinable Topics

- 1c. Perceptrons
- 1d. Backpropagation
- 2a. Probability & Backprop Variations
- 3a. Hidden Unit Dynamics
- 3b. Convolutional Networks
- 4a. Image Processing
- 5a. Recurrent Networks
- 5b. Word Vectors
- 7a. Language Processing
- 7b. Reinforcement Learning
- 8a. Deep Reinforcement Learning
- 8b. Hopfield Networks & Bolzmann Machines
- 9a. Autoencoders
- 9b. Generative Adversarial Networks

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Review

Not Examinable

These topics are NOT examinable:

1b. Neuroanatomy2b. PyTorch

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Sample Exam

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Final Exam

Part A: (12 Marks) Multiple Choice Questions (1 mark each) There is a Sample Exam available in Moodle. Part B: (28 Marks) Part A of the Sample Exam has only one Question. Structured Questions involving a combination of: (Part A of the real Final Exam will have 12 Questions.) selecting from multiple options, and/or entering numeric values Part B of the Sample Exam is made up of Questions from the Exercises, Part A Questions will be similar to the Quizzes. converted to a suitable on-line format. (Part B of the real Final Exam will Part B Questions will be similar to the Exercises. contain questions that are similar in style and scope, although the length, Fractional Negative Marks for Incorrect Answers: content and mark allocation of individual questions won't be exactly the same.) • -60% for Multiple Choice (Sub-)Question with Only Two Options • -20% for Multiple Choice (Sub-)Question with Three or More Options • No Negative Mark for Numerically Typed (Sub-)Ouestion COMP9444 © Alan Blair, 2017-20 COMP9444 © Alan Blair, 2017-20 COMP9444 20T3 Related COMP3 COMP9 COMP4 deep PCA, data analysis, generative models COMP3431 Robotic Software Architecture

- COMP9517 Machine Vision
- 4th Year Thesis topics

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Courses		Possible 4th	Year Projects	
411/9414 Artificial Intelligence		combining autoe	ncoders with GANs	
417 Machine Learning and Data Mining		combining deep	learning with associative memory	
418 Knowledge Representation and Reasoning		language process	sing	

- other topics in deep learning, evolution, games

UNSW myExperience Survey

Please remember to fill in the UNSW myExperience Survey.

Neural Networks and Deep Learning

QUESTIONS?

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GOOD LUCK!

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