

Master of Technology in Intelligent Systems – Part Time

Pattern Recognition and Machine Learning Systems

(Aug 10 – Sep 7 2019)

Aug 10 Saturday		Lecturer
9:00 am	Module 1.1 Introduction to Pattern Recognition and Machine Learning Systems	Fangming
10:30 am	< Morning Break >	
10:45 am	Module 1.2 Neural Network Basics	Fangming
12:30 pm	< Lunch Break >	
1:30 pm	Module 1.3 Neural Network Basics (cont.)	Fangming
3:15 pm	< Afternoon Break >	
3:30pm	Module 1.4 Workshop: Building Multi-Layer Perceptron Neural Networks	Fangming
Aug 17 Saturday		
9:00 am	Module 2.1 Neural Network Models and Designs	Fangming
10:30 am	< Morning Break >	
10:45 am	Module 2.2 Neural Network Models and Designs (cont.)	Fangming
12:30 pm	< Lunch Break >	
1:30 pm	Module 2.3 Deep Neural Network and Deep Learning Systems	Jen Hong
3:15 pm	< Afternoon Break >	
3:30pm	Module 2.4 Deep Neural Network and Deep Learning Systems (cont.) + Workshop	Jen Hong
Aug 24 Saturday		
9:00 am	Module 3.1 Building Visual Detection and Recognition Systems using CNN	Jen Hong
10:30 am	< Morning Break >	
10:45 am	Module 3.2. Case Studies on Using Convolutional Neural Networks + Workshop	Jen Hong
12:30 pm	< Lunch Break >	
1:30 pm	Module 3.3 Solving Temporal Sequential Problems using Recurrent Neural Network	Jen Hong
3:15 pm	< Afternoon Break >	
3:30pm	Module 3.4 Case Studies on Using Recurrent Neural Networks + Workshop	Jen Hong
Aug 31 Saturday		
9:00 am	Module 4.1 Going Deeper in Deep Learning	Jen Hong
10:30 am	< Morning Break >	
10:45 am	Module 4.2 Going Deeper in Deep Learning (cont.)	Jen Hong
12:30 pm	< Lunch Break >	
1:30 pm	Module 4.3 Workshop (Build and Train ResNet)	Jen Hong
3:15 pm	< Afternoon Break >	
3:30pm	Module 4.4 Workshop (Build and Train ResNet) (cont.) + Quiz 1	Jen Hong
Sep 7 Saturday		
9:00 am	Module 5.1 Ensemble and Hybrid Machine Learning Techniques	Fangming
10:30 am	< Morning Break >	
10:45 am	Module 5.2 Ensemble and Hybrid Machine Learning Techniques (cont.)	Fangming
12:30 pm	< Lunch Break >	
1:30 pm	Module 5.3 Ensemble Workshop	Fangming
3:15 pm	< Afternoon Break >	
3:30pm	Module 5.4 Ensemble Workshop (cont.) + Quiz 2	Fangming