Project Schedule

U6325688

		Visual Task	Imitation Leanring Task
Mar	1 - 31 (4 weeks)	Read papers: About self-supervised learning	(1)Read papers: About Imitation learning (2)Test OpenAI Atari platform
April	1 - 30 (4 weeks)		(1)Read papers: About inverse Reinforcement learning (2)Edited Gym library to get actions, rewards and state images
May	1 - 31 (5 weeks)	(1)Read paper: Grad-CAM (2)Tried images with the Grad-CAM (3)Searched the object detection methods: RCNN	**GAIL** (1) Initialised the GAIL method **DQN (Plan B, if GAIL failed)** (1) Searched the DQN method
June	1 - 21 (3 weeks)	(Exam period, no tasks)	
June	21 - 7 (2 weeks)	**Object Detection** (1)Detect multiple roles on the video sequences. (2)Get useful info from object tracking (3) Document methods (4) Document paper reading note	**GAIL** (1) Use colour to get the players' position (2) Use the positions as the embedding for GAIL (3) Test and debug GAIL
July			**DQN** (1) Use colour to get the players' position (2) Initialised the DQN method (3) Use the positions as the embedding for DQN (4) Test and debug DQN
July	8 - 21 (2 weeks)	**OCR** (1)Recognise score by OCR approach (2) Document methods (3) Document paper reading note	**GAIL** (1) Try the OD info as state info (2) Optimise GAIL (3) Play and debug GAIL (4) Document methods (5) Document paper reading note
			DQN (1) Try the OD info as state info (2) Optimise DQN (3) Play and debug game (4) Document methods (5) Document paper reading note
July	22 - 4 (2 weeks)	**Action Detection** (1)Identify actions (2) Document methods (3) Document paper reading note	**GAIL** (1) Train with OCR and debug (2) Document methods (3) Document paper reading note
Aug			**DQN** (1) Train with OCR and debug (2) Document methods (3) Document paper reading note

Aug	5-18 (2 weeks)	**Debug** (1)Debug object, OCR, action detections (2) Document methods (3) Document paper reading note	**GAIL** (1) Train with detected action and debug (2) Document methods (3) Document paper reading note **DQN** (1) Train with detected action and debug (2) Document methods (3) Document paper reading note
Aug Sep	19 - 8 (3 weeks)	**Debug** (1)Debug object, OCR, action detections (2) Update methods (3) Update paper reading note	**Debug & Refine** (1) Refine and debug product (2) Make an easily reusable product (3) Prepare Introduction
Sep	9 - 30 (3 weeks)	**Refine & Report** (1) Make an easily reusable product (2) Write 1st “Introduction”& “Method” 1st draft	
Oct	1-31 (4 weeks)	**Report** (1) Update “Introduction” & “Method” part (2) Finish other parts of report (3) Prepare product, report, final presentation (4) Submit report	