

## Cover Letter for CIE6032(MDS6232) Final Project 2018

**Part A: Completed by Students**

Paper ID	26	Student Name	Jiadong Lou Fan Chuxun Deng Peng	Topic Area	Image/Sentence Similarity
Title:	Multi-mode Online Product Similarity Assessment				
Abstract (200-300 words)	<p>The aim of this task is to match product so that when a customer makes purchase decisions, he can make sure that he gets the product from the cheapest retailer. Traditional ways to assess image similarity is manually-designed features descriptor like SIFT, DAISY, pHash, SSIM etc. More state-of-the-art techniques are Siamese. The methods to assess sentence similarity can be classified into three main categories: word based, structure based and vector based. In this task, in ordered to compare sentence semantic similarity, we will take learning based vectors.</p> <p>In this project, we are offered with 34250 training images and their corresponding titles so that our model is a supervised multi-modal network. Multimodal fusion at feature level can be used to extract the joint feature presentation of images and titles. Then the joint presentations can be fed into adjusted Siamese Network to assess similarity.</p> <p>Our model is assessed by F1-Score. With the multimodal model, we expect the features from images and titles can complement each other and to achieve a well performance finally.</p>				

***Part B: Completed by Course Staff***

Review Comments from TAs				Paper Rating	
(Based on initial paper) Got some concerns.          ----- (Update based on final submission) I like the paper.					
TOTAL: _____ Score in details:					
Proposal (20%)	Paper (50%):		Presentation (30%):		Bonus:
TA-in-charge		Instructor's Signature		Date	Dec. ____ 2018