**Assignment 2. Text-guided Image Saliency**

**In recent years, the analysis and prediction of visual attention have long been crucial tasks in the fields of computer vision and image processing. The images are generally accompanied by various text descriptions; however, few studies have explored the influence of text descriptions on visual attention, let alone developed visual saliency prediction models considering text guidance. The reference paper conducts a comprehensive study on text-guided image saliency (TIS) from both subjective and objective perspectives. The first TIS database named SJTU-TIS, which includes 1200 text-image pairs and the corresponding collected eye-tracking data. Based on these data, the researchers analyze the influence of various text descriptions on visual attention. Then, to facilitate the development of saliency prediction models considering text influence, benchmark experiments evaluate the performance of state-of-the-art saliency models on the dataset.**

In this assignment, you should:

1. **Design a saliency model by using the datasets released by SUN et al.**
2. **Validate the proposed model on the test dataset (AUC, sAUC, CC, NSS).**
3. **Write a report in IEEE Journal format. The report should include title, abstract, the implementation details of your models, the experimental setup and the experimental results, and some analyses, etc.**

Finally, you should send the report, the model (including the readme file), and the results on the test dataset to hanjinliang@sjtu.edu.cn. The email title should be written as: Assignment2 + Name + StudentNumber

The link for the dataset:

<https://pan.baidu.com/s/12DqeiOq_5taO4AkRdYOXUw?pwd=b2zu>

Reference:

1. Yinan Sun, Xiongkuo Min, Huiyu Duan, and Guangtao Zhai. How is Visual Attention Influenced by Text Guidance? Database and Model.