

《Information Theory and Coding》

Assignment 2023

一、Basic demands

- 1、The students should hand in their final assignment before 2023-2-3. Electrical copy need to hand in to liangwei@nwpu.edu.cn.
- 2、Prepare large assignments in the form of research reports or essays. Do not plagiarize.
- 3、Less than 2000 words, Time New Romans format。
- 4、All equations need to type by yourself. The photo copy is forbidden。
- 5、You could refer or cite some PHD essays, but you can not cope whole page from them。
- 6、The simulations are needed。

二、Topic Selection

- 1、Application of information theory in image segmentation.
- 2、Feature selection algorithm based on information theory.
- 3、Development history of data compression coding.
- 4、Application of information theory in communication system.
- 5、Other areas of interest must be closely related to our course.

The topic selection direction can refer to the above five points, the topic can be

self-designed, the content of the article must include domestic and foreign research progress review, discuss the advantages and disadvantages of the main technology, existing problems and solutions, simulation analysis and verification of relevant algorithms.