#### COMP4336/9336 Mobile Data Networking

# 程序的代码的代码编程辅导

### **Objectives**

To encode and using MATLAB

#### **Prerequisites**

- Knowledge of
- Access to a PC



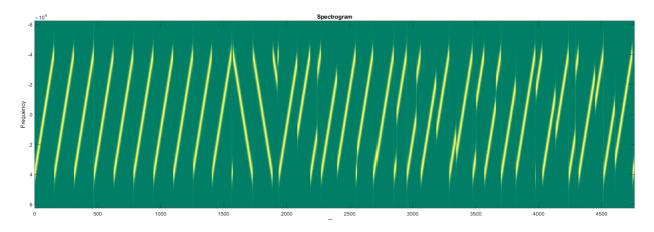
You will use a LoRa simulator in MATLAB to modulate/encode text messages, then decode/demodulate the encoded message.



Figure 1: LoRa sender and receiver side process

#### Task 1: Discover the spectrogram of a LoRa packet

Firstly, install the LoRa simulator in MATHLAB: <a href="https://github.com/jkadbear/LoRaPHY">https://github.com/jkadbear/LoRaPHY</a>
Then try to use the LoRa simulator to encode a message "4336" (you can refer to the example code "save\_signal\_to\_file.m" in the git) and output the signal array as a file. Then generate the spectrogram of the signal (Fogure 2 shows an example of LoRA spectrogram). Include the spectrogram image in your report, while specifying the <a href="preamble">preamble</a>, <a href="https://github.com/jkadbear/LoRaPHY">State Frame Delimiter (SFD)</a>, and data part in the spectrogram.



## 程序代写代做 CS编程辅导

#### Task 2: Decode the LoRa signal

Load the signal from the kl, and then convert the signal back to the original text message (you can refer to kl, and signal from file.m"). Include the output in your report.

Submit your report that the state of the two tasks.

Penalty at the rate of 570 for tach way late will be strictly enforced for all lab submissions. All submissions will be subject to strict UNSW plagiarism rules.

End of Lab 7 - Hope of Colored Calculation (Stutores

## Assignment Project Exam Help

Email: tutorcs@163.com

QQ: 749389476

https://tutorcs.com