



华南理工大学

South China University of Technology

The Experiment Report of *Machine Learning*

SCHOOL: SCHOOL OF SOFTWARE ENGINEERING

SUBJECT: SOFTWARE ENGINEERING

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Linear Regression, Linear Classification and Gradient Descent

Abstract—The short abstract is intended to give the reader an overview of the experiment. It should be brief and to the point.

I. INTRODUCTION

THIS section introduces the problem to solved and leads the reader on to the main part. Detailed motivation is necessary. What's more, you can show your expected results and contributions.

II. METHODS AND THEORY

In this section, you are asked to give a complete introduction to the experiment. For instance, the chosen methods, the related theories, the related equations(loss function), the derivation process(taking the gradient) and so on.

III. EXPERIMENTS

A. Dataset

This section represents the related information of datasets, such as the content, the number of data, the training set, the validation set and so on.

B. Implementation

All detailed implementation in your experiment: initialization, process, results, all kinds of parameters. In a word, describe clearly What you do and how you do.

Figures and tables should be labeled and numbered, such as in Table I and Fig. 1.

TABLE I
SIMULATION PARAMETERS

Information message length	$k = 16000$ bit
Radio segment size	$b = 160$ bit
Rate of component codes	$R_{cc} = 1/3$
Polynomial of component encoders	$[1, 33/37, 25/37]_8$

IV. CONCLUSION

This section summarizes the paper. In our experiments, you can also write your gains and inspirations in here.

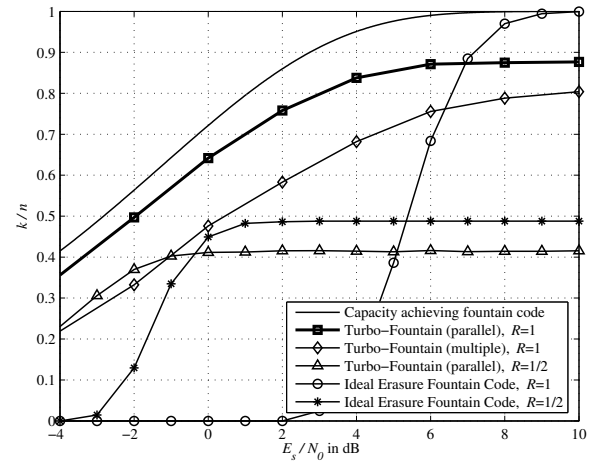


Fig. 1. Simulation results on the AWGN channel. Average throughput k/n vs E_s/N_0 .