

XXX

汇报人：xxx  
指导老师：xxx

xxx

x 年 x 月 x 日

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- XXXX
- XXXX

## 2 Related Work

- Physical Methods
- Statistic Methods
- Deep Learning Methods

## 3 My Methods and Methodology

- dataset
- Review of Model
- Details of Model

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# 统计方法

## ARIMA

- 自回归模型:AR

$$y_t = \mu + \sum_{i=1}^p \gamma_i y_{t-i} + \epsilon_t \quad (1)$$

- 移动平均模型:MA

$$y_t = \mu + \sum_{i=1}^p \theta_i \epsilon_{t-i} + \epsilon_t \quad (2)$$

- 自回归移动平均模型:ARMA

$$y_t = \mu + \sum_{i=1}^p \gamma_i y_{t-i} + \sum_{i=1}^p \theta_i \epsilon_{t-i} + \epsilon_t \quad (3)$$



# 深度学习

## LSTM

### Mathematics

$$f_t = \sigma(W_f[h_{t-1}, x_t] + b_f)$$

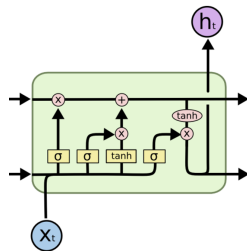
$$i_t = \sigma(W_i[h_{t-1}, x_t] + b_i)$$

$$\tilde{C}_t = \tanh(W_c[h_{t-1}, x_t] + b_c)$$

$$C_t = f_t * C_{t-1} + i_t * \tilde{C}_t$$

$$o_t = \sigma(W_o[h_{t-1}, x_t] + b_o)$$

$$h_t = o_t * \tanh(C_t)$$



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# 数据集

XXXXX

如表1所示

Table: Dataset

xx	xx	xx	xx	xx
0	0	0	18	0
0	99	100	50	0

xxx rows-xxx cols

汇报完毕 恳请指正

Presented by  
xxx