Project Name: LaTeX Templet for NUSRI

Instructor: Professor Isaac Newton

Fang Qingyun
913104330115

Fall 2018

November 3, 2018

Abstract

The establishment of the National University of Singapore (Suzhou) Research Institute (NUSRI), a comprehensive international research institution, reinforces the spirit of cooperation between China and Singapore in technology and education. At NUSRI, we strive to establish a multidisciplinary platform that leverages the strong research capabilities of National University of Singapore (NUS) to enhance the scientific, economic and industrial thrusts of Jiangsu and China.

Keywords: NUS; NUSRI

Contents

1 Introdction

NUSRI is the very first research institute in China which is independently operated and managed by an overseas top university, so as to reinforce the cooperation in science and education between China and Singapore. The development of NUSRI is timely in promoting more international research activities within Suzhou Industrial Park (SIP). NUSRI is registered as a local independent non-profit organization with legal identity under Suzhou Industrial Park Administrative Committee (SIPAC) and operated and managed by NUS.

NUS is a leading global university with over a hundred years of history. For many years, NUS has been consistently ranked at the top in the Times Higher Education's list of the world's top universities. In 2019, it was ranked 23rd globally, and 2nd in Asia.

NUSRI is the first overseas research institute of NUS. Rallying the diverse insight, world class scientific research resources and innovation ability of the university, NUSRI aims to focus on dedicated research, training and technology commercialization service to contribute to social transformation and upgrading as well as sustainable development, not only to SIP and Suzhou city but also the Jiangsu province and eventually to the whole of China[1].

2 Analysis of the Problem

2.1 Vision

Our Vision

- A global institute for knowledge creation and innovation

2.2 Mission

Our Mission

- Enhance economic and technological advancement and development

3 Modeling and Calculating

4 Validating the Model

5 Thinking

Happy TeXing!

References

[1] Leslie Lamport. LATEX: A Document Preparation System.AddisonWesley, Reading, Massachusetts, second edition, 1994, ISBN 0-201-52983-1.

[2] Donald E. Knuth. The TEXbook, Volume A of Computers and Typesetting,Addison Wesley, Reading, Massachusetts, second edition, 1984,ISBN 0-201-13448-9.

Appendix A Tables of Data

Here is a sample table.

Table 1: SampleTable

Project	A	B	C
ProjectOne	a1	b1	c1
ProjectTwo	a2	b2	c2
ProjectThree	a3	b3	c3
ProjectFour	a4	b4	c4
ProjectFive	a5	b5	c5

Appendix B Project Code

The following is an example of a MATLAB program that uses Package mcode, which preserves the style of MATLAB.

```
%The program normalizes the measurement data and compares it to the ...
    standard cosine function
data=xlsread('data_sun',1,'B3:E39');
min=[(data(1,1)+data(37,1))/2,(data(1,2)+data(37,2))/2,...
(data(1,3)+data(37,3))/2,(data(1,4)+data(37,4))/2];
max=[data(19,1),data(19,2),data(19,3),data(19,4)];
Min=repmat(min,37,1);
Max=repmat(max,37,1);
data=(data-Min)./(Max-Min);
x=-pi/2:pi/36:pi/2;
y=cos(x);
%----------------------figure-------------------------%
figure(1);
subplot(2,2,1);
plot(x,data(:,1),'ro-');
hold on;
plot(x,y,'b-');
title('R=1.2\Omega');
axis([-2,2,0,1]);
grid on;
subplot(2,2,2);
plot(x,data(:,2),'ro-');
hold on;
plot(x,y,'b-');
title('R=1.6\Omega');
axis([-2,2,0,1]);
grid on;
subplot(2,2,3);
plot(x,data(:,2),'ro-');
hold on;
plot(x,y,'b-');
```

```
31 title('R=2.0\Omega');
32 axis([-2,2,0,1]);
33 grid on;
34 subplot(2,2,4);
35 plot(x,data(:,4),'ro-');
36 hold on;
37 plot(x,y,'b-');
38 title('R=2.4\Omega');
39 grid on;
40 axis([-2,2,0,1]);
```