

Beamer Example

A BEAMER TEMPLATE FOR SEG-2021/UH University of Houston Department of ECE



Outline

- 1 Introduction
- 2 Test
 - Table test
 - Figure test
 - Equation test
 - Theorem test
 - Algorithm test
 - Slide transition test

Introduction

Test

Table test Figure test

Fauation test

Theorem test

Algorithm test



Outline

- 1 Introduction
- 2 Test
 - Table test
 - Figure test
 - Equation test
 - Theorem test
 - Algorithm test
 - Slide transition test

Introduction

Test

Table test Figure test

Equation test

Theorem test

Algorithm test



Introduction

This is the template for UH slides, which includes:

■ Table: Check table 1.

Figure: Check fig. 1.

Block and Equation: Check (1-1).

■ **Theorem**: Check theorem 1.

Algorithm: Check algorithm 1.

■ Slide transition: Check Subsection 2.6.

And here we would like to test the references: Zeiler et al.¹, Yang et al.², Dong et al.³.

Introduction

Test

Table tes

Figure test

Equation test

Algorithm test

Slide transition test



Yuchen Jin Demo Department of ECE November

¹M. D. Zeiler, D. Krishnan, G. W. Taylor, and R. Fergus, "Deconvolutional networks," in 2010 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, Jun. 2010, pp. 2528–2535.

²J. Yang, Z. Wang, Z. Lin, S. Cohen, and T. Huang, "Coupled dictionary training for image super-resolution," *IEEE Transactions on Image Processing*, vol. 21, no. 8, pp. 3467–3478, Aug. 2012.

³C. Dong, C. C. Loy, K. He, and X. Tang, "Image super-resolution using deep convolutional networks," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 38, no. 2, pp. 295–307, Feb. 2016.

Outline

- 1 Introduction
- 2 Test
 - Table test
 - Figure test
 - Equation test
 - Theorem test
 - Algorithm test
 - Slide transition test

Introduction

Test

Table test

Figure test

Equation test

Algorithm test



Table test

■ Test table, which is shown in table 1.

Table: Parameters of Daubechies's filter.

n	h[n]	g[n]
0	0.3327	-0.0352
1	0.8069	-0.0854
2	0.4599	0.1350
3	-0.1350	0.4599
4	-0.0854	-0.8069
5	0.0352	0.3327

Introduction

Test

Table test

Figure test

Equation test

Theorem test Algorithm test



Figure test

■ Test inner subgraphs, i.e. fig. 1(a) and fig. 1(b).

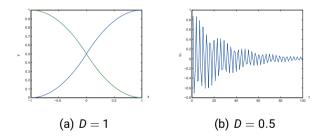


Figure: Test graphs.

Introduction

Test

Table test

Figure test

Equation test

Theorem test Algorithm test



Equation test

■ Test blocked equations, i.e. (1-1), (1-2).

SVM loss function

Here we show a simple example of subequations in (1-1):

$$\frac{\partial \mathcal{L}(\mathbf{w}, b)}{\partial \mathbf{w}} = \mathbf{w} + C \sum_{i} \frac{\partial \ell_{i}}{\partial \mathbf{w}}, \tag{1-1}$$

$$\frac{\partial \mathcal{L}(\mathbf{w}, b)}{\partial b} = C \sum_{i} \frac{\partial \ell_{i}}{\partial b}, \tag{1-2}$$

Introduction

Test

Table test

Figure test

Equation test

Theorem test

Algorithm test



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Theorem test

■ Test theorems, i.e. theorem 1 and theorem 2.

Theorem (Example Theorem 1)

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi.

Theorem (Example Theorem 2)

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi.

Introduction

Test

Table test

quation test

Theorem test



Algorithm test

Test algorithm, i.e. algorithm 1.

Algorithm 1 DWT Algorithm

Input: Sequence **x** in time domain

Output: Sequence $\hat{\mathbf{x}}$ in wavelet domain

- 1: $N = \lfloor \log_2(\operatorname{length}(\mathbf{x})) \rfloor$;
- 2: $\mathbf{c}_{N} = \mathbf{x}, \ \hat{\mathbf{x}} = \varnothing;$
- 3: **for** *i* from 1 to *N* **do**
- 4: \mathbf{c}_{N-i} , $\mathbf{d}_{N-i} = \text{analysis_filter}(\mathbf{c}_{N-i+1})$;
- 5: insert \mathbf{d}_{N-i} at the beginning of $\hat{\mathbf{x}}$.
- 6: end for

Introduction

Test

Table test

Figure test

quation test

Algorithm test



Slide transition test

■ This is transition test, let's begin:

Introduction

Test

Table test

Figure test

Equation test Theorem test

Algorithm test



Slide transition test

- This is transition test, let's begin:
 - This is the first item.

Introduction

Test

Table test

Figure test

Equation test Theorem test

Algorithm test



Slide transition test

- This is transition test, let's begin:
 - This is the first item.
 - This is the second item.

Introduction

Test

Table test

Figure test

Equation test Theorem test

Algorithm test



Slide transition test

- This is transition test, let's begin:
 - This is the first item.
 - This is the second item.
 - This is the third item.

Introduction

Test

Table test

Figure test

Equation test Theorem test

Algorithm test



Slide transition test

- This is transition test, let's begin:
 - This is the first item.
 - This is the second item.
 - This is the third item.
- We will show 3 items simultaneously.

Introduction

Test

Table test

Figure tes

Equation test Theorem test

Algorithm test



Slide transition test

- This is transition test, let's begin:
 - This is the first item.
 - This is the second item.
 - This is the third item.
- We will show 3 items simultaneously.
 - This is the first item.
 - This is the second item.
 - This is the third item.

Introduction

Test

Table test

Figure tes

Theorem too

Algorithm



Slide transition test

- This is transition test, let's begin:
 - This is the first item.
 - This is the second item.
 - This is the third item.
- We will show 3 items simultaneously.
 - This is the first item.
 - This is the second item.
 - This is the third item.

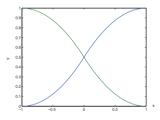


Figure: Test graph.

Introduction

Test

Table test

Figure test

Theorem tes



