



Demo

from ECE

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Outline

Introduction

Test

Table test
Figure test
Equation test
Theorem test
Algorithm test
Slice transition test

Reference

1 Introduction

2 Test

- Table test
- Figure test
- Equation test
- Theorem test
- Algorithm test
- Slice transition test

3 Reference



Outline

Introduction

Test

Table test
Figure test
Equation test
Theorem test
Algorithm test
Slice transition test

Reference

1 Introduction

2 Test

- Table test
- Figure test
- Equation test
- Theorem test
- Algorithm test
- Slice transition test

3 Reference



Introduction

Introduction

Test

Table test
Figure test
Equation test
Theorem test
Algorithm test
Slice transition test

Reference

- This is the template for UH slices, which includes:
 - **Table:** Check Table 1.
 - **Figure:** Check Fig. 1.
 - **Block and Equation:** Check (1-1).
 - **Theorem:** Check Theorem 1.
 - **Algorithm:** Check Algorithm 1.
 - **Slice transition:** Check Subsection 2.6.
- And here we would like to test the references: [1] [2] [3].
- This is the test for multi-references: [1, 2, 3]



Outline

1 Introduction

2 Test

- Table test
- Figure test
- Equation test
- Theorem test
- Algorithm test
- Slice transition test

3 Reference

Introduction

Test

Table test
Figure test
Equation test
Theorem test
Algorithm test
Slice transition test

Reference



Test

Table test

- Test table, which is shown in Table 1.

Table 1: Parameters of *Daubechies's* filter.

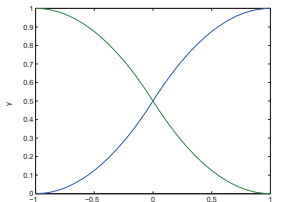
n	$h[n]$	$g[n]$
0	0.3327	-0.0352
1	0.8069	-0.0854
2	0.4599	0.1350
3	-0.1350	0.4599
4	-0.0854	-0.8069
5	0.0352	0.3327



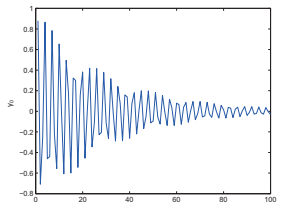
Test

Figure test

- Test inner subgraphs, i.e. Fig. 1(a) and Fig. 1(b).



(a) $D = 1$



(b) $D = 0.5$

Figure 1: Test graphs.



Test

Equation test

Introduction

Test

Table test

Figure test

Equation test

Theorem test

Algorithm test

Slice transition test

Reference

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

SVM loss function

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

$$\frac{\partial \mathcal{L}(\mathbf{w}, b)}{\partial \mathbf{w}} = \mathbf{w} + C \sum_i \frac{\partial \ell_i}{\partial \mathbf{w}}, \quad (1-1)$$

$$\frac{\partial \mathcal{L}(\mathbf{w}, b)}{\partial b} = C \sum_i \frac{\partial \ell_i}{\partial b}, \quad (1-2)$$



Test

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, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi.

Introduction

Test

Table test

Figure test

Equation test

Theorem test

Algorithm test

Slice transition test

Reference



Test

Algorithm test

- Test algorithm, i.e. Algorithm 1.

Introduction

Test

Table test

Figure test

Equation test

Theorem test

Algorithm test

Slice transition test

Reference

Algorithm 1 DWT Algorithm

Input: Sequence \mathbf{x} in time domain

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

- 1: $N = \lfloor \log_2(\text{length}(\mathbf{x})) \rfloor$;
 - 2: $\mathbf{c}_N = \mathbf{x}$, $\hat{\mathbf{x}} = \emptyset$;
 - 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**
-



Test

Slice transition test

Introduction

Test

Table test
Figure test
Equation test
Theorem test
Algorithm test
Slice transition test

Reference

■ 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.
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Test

Slice transition test

Introduction

Test

Table test
Figure test
Equation test
Theorem test
Algorithm test
Slice transition test

Reference

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Test

Slice transition test

Introduction

Test

Table test
Figure test
Equation test
Theorem test
Algorithm test
Slice transition test

Reference

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Test

Slice transition test

Introduction

Test

Table test

Figure test

Equation test

Theorem test

Algorithm test

Slice transition test

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Test

Slice transition test

Introduction

Test

Table test
Figure test
Equation test
Theorem test
Algorithm test
Slice transition test

Reference

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Test

Slice transition test

Introduction

Test

Table test

Figure test

Equation test

Theorem test

Algorithm test

Slice transition test

Reference

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Test

Slice transition test

Introduction

Test

Table test

Figure test

Equation test

Theorem test

Algorithm test

Slice transition test

Reference

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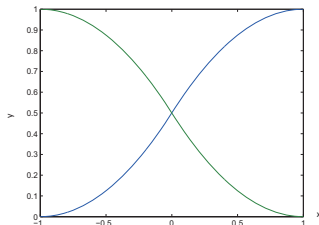


Figure 2: Test graph.



Outline

Introduction

Test

Table test
Figure test
Equation test
Theorem test
Algorithm test
Slice transition test

Reference

1 Introduction

2 Test

- Table test
- Figure test
- Equation test
- Theorem test
- Algorithm test
- Slice transition test

3 Reference



Reference I

Introduction

Test

Table test
Figure test
Equation test
Theorem test
Algorithm test
Slice transition test

Reference



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Thank you for Listening

It's time for Q & A