



Introduction

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■ 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.

• 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]



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## Test Table test

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### ■ Test table, which is shown in Table 1.

Table 1: Parameters of Daubechies's filter.

n	h[n]	<i>g</i> [ <i>n</i> ]
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

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

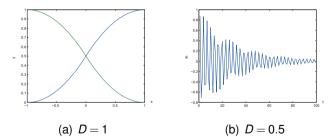


Figure 1: Test graphs.



## Test Equation test

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

## **SVM** loss function

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

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

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



## **Test**Theorem test

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■ 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



## **Test**Algorithm test

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■ Test algorithm, i.e. Algorithm 1.

### Algorithm 1 DWT Algorithm

**Input:** Sequence **x** in time domain

Output: Sequence x in wavelet domain

1: 
$$N = |\log_2(\operatorname{length}(\mathbf{x}))|$$
;

2: 
$$\mathbf{C}_N = \mathbf{X}, \ \hat{\mathbf{X}} = \varnothing;$$

4: 
$$\mathbf{c}_{N-i}$$
,  $\mathbf{d}_{N-i}$  = analysis filter( $\mathbf{c}_{N-i+1}$ );

5: insert 
$$\mathbf{d}_{N-i}$$
 at the beginning of  $\hat{\mathbf{x}}$ .



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### ■ 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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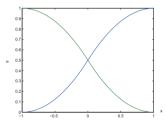


Figure 2: Test graph.



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## Thank you for Listening

It's time for Q & A