



Beamer Example

A BEAMER TEMPLATE FOR SEG-2018/UH
University of Houston
Department of ECE



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Introduction

- 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]

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- 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

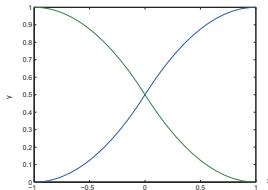
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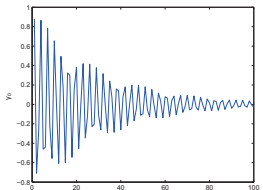
Test

Figure test

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



(a) $D = 1$



(b) $D = 0.5$

Figure: Test graphs.

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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):

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

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

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

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- Test algorithm, i.e. algorithm 1.

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**
-

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Slice transition test

- This is transition test, let's begin:

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Test

Slice transition test

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

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Slice transition test

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

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Slice transition test

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

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Slice 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.

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Test

Slice 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.

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Slice 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.

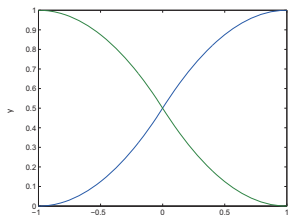


Figure: Test graph.

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Reference I



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



J. 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.



C. 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.

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The background of the slide is a photograph of a university campus. In the center is a large, light-colored stone building with a prominent central tower featuring a red-tiled conical roof and a single arched window. To the right, a large, mature green tree stands in front of the building. In the foreground, a circular fountain with multiple water jets is active, creating a misty spray. The sky is overcast.

Thank you for listening!

IT'S TIME FOR Q&A.