



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 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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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

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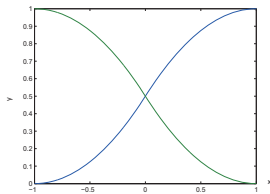
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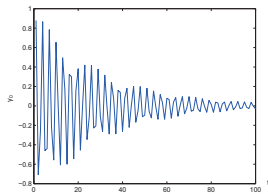
Test

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):

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

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

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.

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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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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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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.

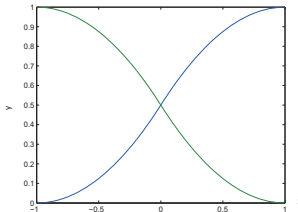


Figure: Test graph.

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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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A photograph of a university building with a central tower and a fountain in the foreground. The building has a red-tiled roof and a central tower with a blue-tinted window. A large tree is on the right, and a fountain is in the foreground. A white text box is overlaid on the image.

Thank you for listening!

IT'S TIME FOR Q&A.