Bare Demo of NRSMRev.cls for USNC-URSI National Radio Science Meeting

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Abstract—The abstract goes here.

Index Terms—IEEE, IEEEtran, journal, LATEX, paper, template.

I. SHOW HOMEWORK

sadfasf, sdfdsf, sdf.

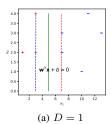
Test citations:

[1] [2] [3].

A. Show Floats

Test figures and example block which is shown in Example I.1.

Example I.1 (Figure Problem) *Test those inner subgraphs, i.e.* Fig. *1a and* Fig. *1b. Also test 1b and* (1-1):



Here could be graphs. (b) D = 0.5

Fig. 1. Test graphs.

Test subequations and the theorem block which is shown in Theorem I.1.

Theorem I.1 (Example Theorem) *Here we show a simple example of subequations in* (1-1):

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

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

Test table, which is shown in Table I: Test equations in (2):

$$I(\Omega) = \operatorname{Re}\left\{\frac{e^{-x}}{j\Omega}e^{j\Omega x}\Big|_{0}^{1} + o\left(\frac{1}{\Omega}\right)\right\} \approx \operatorname{Re}\left\{\frac{e^{-x}}{j\Omega}e^{j\Omega x}\Big|_{0}^{1}\right\}$$
$$= \operatorname{Re}\left\{\frac{e^{j\Omega - 1} - 1}{j\Omega}\right\} = \frac{1}{\Omega e}\cos\left(\Omega - \frac{\pi}{2}\right) = \frac{1}{\Omega e}\sin\Omega. \tag{2}$$

TABLE I 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

B. Show Algorithm

Test Algorithm in 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

П

Test codings:

```
# HyperPlate of SVM. It contains variables
        including w and b, and convert input x
   vector to a single value y(+-1). with tf.name_scope('SVMPlate'): #Noted that the
        dimension of y must be 1, so the constants
        should be 1 dimensional.
        self.constrain = tf.constant(
            SVMPrimalSolution.Domain, dtype=tf.
            float32, shape=[1], name='Constrain')
4
        self.w = self.weight_variable([1, self.xDim],
             name='Weight')
        bias = self.bias_variable([1], name='Bias')
        self.subjection = tf.multiply(self.y, tf.
            matmul(self.w, self.x) + bias)
        tf.add_to_collection('Weight', self.w)
        tf.add_to_collection('Bias', bias)
10
   @staticmethod
    def weight_variable(shape, name=None):
11
12
           weight_variable generates a weight
            variable of a given shape.'''
13
        initial = tf.truncated_normal(shape, stddev
            =0.1)
        if name is not None:
            return tf.Variable(initial, name=name)
            return tf. Variable(initial)
   @staticmethod
```

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II. REFERENCES

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APPENDIX A

PROOF OF THE FIRST ZONKLAR EQUATION

Appendix one text goes here.

APPENDIX B

Appendix two text goes here.