

A dark blue vertical bar on the left side of the page. A blue arrow points to the right from the bar, containing the date.

11-12-2015

Wavelets

Practice 6

Several thin, curved lines in dark blue and light gray originate from the bottom left and curve upwards and to the right.

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Practice 6 – Wavelets

INTRODUCTION:

This is an introduction...

Subtitle

This is a paragraph...

GENERAL PROPOSE:

This is the general propose...

PROCEDURE:

This practice...

In order to implement this practice we use the following code:

```
function practice5()  
  
end
```

In the code we include the following complementary custom functions:

```
function [time,val,Fs,labels] = readPhysionet(Name)  
% Read mat File:  
    matName = strcat(Name, '.mat');  
    load(matName);  
    n = size(val,1);  
% Read info File:  
    infoName = strcat(Name, '.info');  
    fid = fopen(infoName, 'rt');  
    fgetl(fid);  
    fgetl(fid);  
    fgetl(fid);  
    freqint = sscanf(fgetl(fid), 'Sampling frequency: %f Hz Sampling  
interval: %f sec');  
    Fs = freqint(1);  
    interval = freqint(2);  
    fgetl(fid);  
% Read data of each signal  
    signal = cell(1,n);  
    gain = zeros(1,n);  
    base = zeros(1,n);  
    units = cell(1,n);  
    for i = 1:n  
        [~, signal(i), gain(i), base(i), units(i)] =  
        strread(fgetl(fid), '%d%s%f%f%s', 'delimiter', '\t');  
    end  
    fclose(fid);
```



```
% Baseline-corrects and scales the time series:
val(val== -32768) = NaN;
for i = 1:n
    val(i, :) = (val(i, :) - base(i)) / gain(i);
end
time = (1:size(val, 2)) * interval;
val = val';
% Gives information of each signal:
labels = cell(1,length(signal));
for i = 1:length(signal)
    labels{i} = strcat(signal{i}, ' (' , units{i}, ')');
end
end
```

RESULTS:

In the first part...

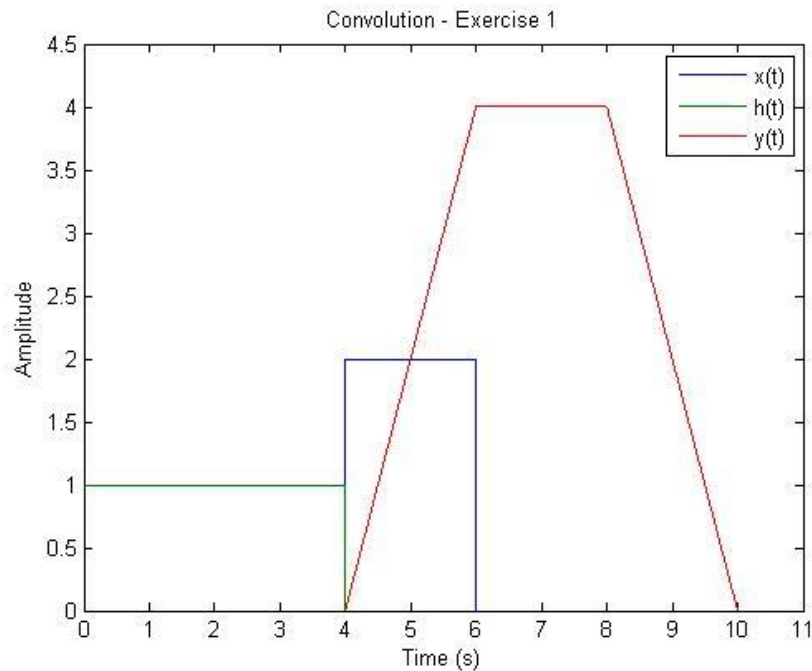


Figure3. Example figure.

CONCLUSION:

This is the conclusion...

REFERENCES:

- [1] Jürgen Stutzki, Convolution, Autocorrelation, Cross-correlation, Power Spectrum: Fourier Transform and its Applications. Sommersemester 2007. Recovered from: [\[http://hera.ph1.uni-koeln.de/~stutzki/teaching/FT_appl_2.pdf\]](http://hera.ph1.uni-koeln.de/~stutzki/teaching/FT_appl_2.pdf).