function scatter()

%UNTITLED Summary of this function goes here

% Detailed explanation goes here

T = readtable('data/cv-valid-dev.xlsx','ReadRowNames',true);

F=table2cell(T(:,{'scatterc','wav\_filename'}));

all\_files=size(F,1);

ofm='hh:mm:ss';

ifm='dd-mmm-yy HH:MM:SS.FFF';

tic;

for i = 1:all\_files

wav\_file=strjoin(F(i,2));

dss\_file=strjoin(F(i,1));

if exist(wav\_file,'file')>0

if exist(dss\_file,'file')==0

st = transpose(scatter\_audio(wav\_file));

csvwrite(dss\_file,st);

end

else

fprintf('\nNot found:%s',wav\_file);

end

pg=i/all\_files\*100;

ts=datestr(now,ifm);

tv=toc;

d=duration(seconds(tv),'Format',ofm);

pc=(all\_files/i\*tv)-tv;

eta=duration(seconds(pc),'Format',ofm);

if mod(i,500)==0 || i==1 || i==10 || i==100

fileID = fopen('log/dss180625.log','w+');

s=sprintf('\n%s: processing file %s',ts,wav\_file);

fprintf(fileID,'%s',s);

fprintf('%s',s);

s=sprintf('\n%s : processing %d of %d files %3.2f%% complete.. time elapsed = %s, eta = %s',ts,i,all\_files,pg,d,eta);

fprintf(fileID,'%s',s);

fprintf('%s',s);

fclose(fileID);

end

end

end

function st= scatter\_audio(inputArg1)

y=audioread(inputArg1);

N=length(y);

T=2^9;

filt\_opt=default\_filter\_options('audio',T);

Wop=wavelet\_factory\_1d(N,filt\_opt);

S=scat(y,Wop);

S=renorm\_scat(S);

S=log\_scat(S);

st=format\_scat(S);

end