

```

                                test_measures
function [avg_ent, std_dev] = test_measures(input_im,N)
im_size = size(input_im);
num_rows = im_size(1);
num_cols = im_size(2);
row_length = floor(num_rows/N);
col_length = floor(num_cols/N);
ent_vector = 0;
avg_ent = 0;
for i = 0 : N - 1
    for j = 0 : N - 1
        temp_im = input_im(1 + i*row_length : (i+1)*row_length, 1 + j*col_length :
(j+1)*col_length, 1 : 3);
        temp_ent = entropy(temp_im);
        avg_ent = avg_ent + temp_ent;
        ent_vector = [ent_vector entropy(temp_im)];
    endfor
endfor
length = columns(ent_vector);
ent_vector = ent_vector(2:length);
avg_ent = avg_ent / N^2;
std_dev = std(ent_vector);
endfunction

```