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                                ent_contrast
function adjusted_img = ent_contrast(input_img,N,avg_ent,s_0)
im_size = size(input_img);
num_rows = im_size(1);
num_cols = im_size(2);
row_length = floor(num_rows/N);
col_length = floor(num_cols/N);

for i = 0 : N - 1
    for j = 0 : N - 1
temp_img = input_img(1 + i*row_length : (i+1)*row_length, 1 + j*col_length :
(j+1)*col_length, 1 : 3);
alpha = (entropy(temp_img) - avg_ent)^2/s_0^2;
input_img(1 + i*row_length : (i+1)*row_length, 1 + j*col_length : (j+1)*col_length, 1
: 3) = alpha*temp_img;

    endfor
endfor

adjusted_img = input_img;

endfunction

```