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AddNoiseBatch Function

```
% Input: folder's path to be scanned for .jpg file  
% Output: .bmp files with guass noise  
  
function AddNoiseBatch(folderpath)
```

default parameter

```
if nargin < 1  
    folderpath = cd;  
end
```

to avoid non-string input

```
if ischar(class(folderpath))  
  
    if folderpath(end) ~= '/'  
        folderpath = [folderpath, '/'];  
    end
```

scan in the folder for jpg files

```
filelist = dir(strcat(folderpath, '*.jpg'));
```

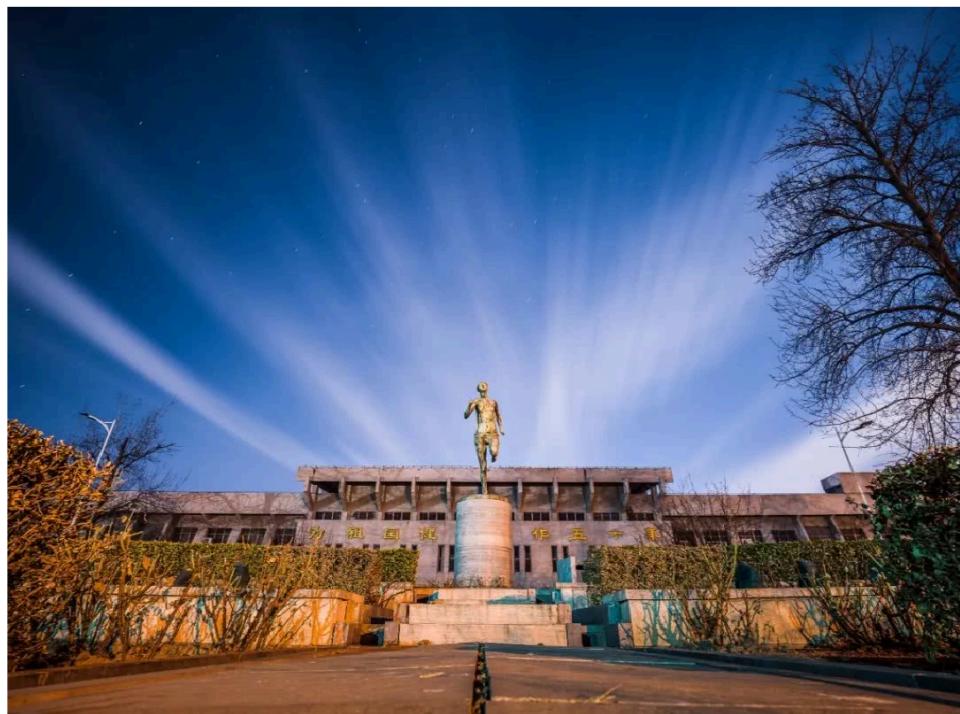
processing each jpg

```
for iter = 1:length(filelist)  
  
    name = filelist(iter);  
    % figure(iter +5);
```

read I1

```
I1 = imread(name.name);
```

```
imshow(I1);
```



generate I2

```
if ndims(I1) > 1
    I2 = rgb2gray(I1);
end
imshow(I2);
```





resize I2 into I3

```
I3 = imresize(I2,[nan,1000], 'bicubic');
I3 = im2double(I3);
imshow(I3);
```



mean = 0, stdDeviation = 1 guass noise

```
guass = 0+1*randn(size(I3));  
imshow(guass);  
  
I4 = guass + I3;  
I4 = imadjust(I4);  
imshow(I4);
```





show 3 image in one figure with subplots

```
figure(iter);
img_show(1) = subplot(1,3,1);
imshow(I3);
img_show(2) = subplot(1,3,2);
imshow(guass);
img_show(3) = subplot(1,3,3);
imshow(I4);
linkaxes(img_show, 'xy');
imwrite(I4,strcat(name.name(1:end-4), '.bmp'));

end
end
end
```

Published with MATLAB® R2019a