MathWorks®
MATLAB Answers™

+ Follow

Vote 0

how to check for a RGB image or Grayscale image before execution?

Asked by Priyanka Roy on 1 Sep 2015

Latest activity Answered by Image Analyst MVP on 1 Sep 2015

Accepted Answer by Image Analyst MVP

196 views (last 30 days)

how do i check for a RGB image or Grayscale image before execution?

1 Comment

Priyanka Roy on 1 Sep 2015

"If" condition satisfy for RGB image

if size(Image,3)==3

Sign in to comment.

Related Content

MATLAB Answers

counting pixels within an image file

2 Answers

why do not white pixels equal black pixels

1 Answer

gray image to rgb using ind2rgb

3 Answers

Entire Website

MATLAB image display - truecolor and indexed images

Blogs

Gray image to Color image conversion

File Exchange

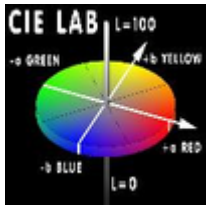
All about pixel colors: Window-level and CLim

Blogs

Tags

image | image analysis | image processing | digital image proc...

1 Answer



Vote

3

Link

Answer by Image Analyst MVP on 1 Sep 2015

Accepted Answer

See this snippet where I check if the number of color channels is 1 and then, if it's not, and I wanted a grayscale image instead of an RGB image, I convert it to gray scale:

```
grayImage = imread(fullFileName);
% Get the dimensions of the image.
% numberOfColorBands should be = 1.
[rows, columns, numberOfColorChannels] = size(grayImage);
if numberOfColorChannels > 1
        % It's not really gray scale like we expected - it's color.
        % Convert it to gray scale by taking only the green channel.
        grayImage = grayImage(:, :, 2); % Take green channel.
end
```

Of course you can call the image array anything you want, and check if numberOfColorChannels > 1 or if numberOfColorChannels == 3, or however you want to do it, and then take whatever actions you want to based on knowing how many color channels it has.

0 Comments

Sign in to comment.

Sign in to answer this question.