function [BW,maskedImage] = segmentImageFcn(im)

if size(im,3) == 3

im = rgb2gray(im);

end

% Initialize segmentation with Otsu's threshold

level = graythresh(im);

mask = im2bw(im,level);

% Filter components by area

BW = bwareafilt(mask, [920 Inf]);

% Form masked image from input image and segmented image.

maskedImage = im;

maskedImage(~BW) = 0;

BW = ~BW;

end