function [Thresh] = ThreshMode(I)  
% Function to apply threshold to 8 bit grey image by finding minimum in  
% histogram of grey values.  
I = double(I);  
MaxInt = max(max(I));  
MaxInt = single(MaxInt);  
  
H = hist(I(:),0:MaxInt);  
  
Iteration = 0;  
Cond = 0;  
  
while Cond == 0  
 F = ones(1,3)/3;  
 H = conv2(H,F,'same');  
  
 Sy = size(H,2);  
 Peak = 0;  
  
 for i = 2:Sy-1  
 if Peak < 3  
 if H(i-1)<H(i) && H(i+1)<H(i)  
 Peak = Peak+1;  
 end  
 end  
 end  
  
 if Peak > 2  
 Cond = 0;  
 else  
 Cond = 1;  
 end  
  
 Iteration = Iteration + 1;  
  
 if Iteration > 10000  
 Thresh = 0;  
 return  
 end  
end  
  
for j = 2:MaxInt  
 if H(j-1)>H(j) && H(j+1)>H(j)  
 Thresh = j-1;  
 end  
end

Not enough input arguments.  
  
Error in ThreshMode (line 4)  
I = double(I);

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