

```

28 %   GRAPHS       -   Controls wether graphs of thresholdi
29 %                   functions should be plotted or not.
30 %
31 %   Licensed under BSD as a part of EDGY project sour
32 %   see readme.txt file. For more information see pro
33 %
34 %   Revision: 1.0
35 %   Date: 2007/05/08
36 %   Author: Alexander Tuttle, Erik Ringaby
37
0.06 1 38 addpat common\;
0.03 1 39 addpat common\mxSimpleDiff;
0.05 1 40 addpat artikell\;
41
1 42 if ~(IsScalar(j) && IsScalar(alpha) && IsScalar(tMax)
43     && IsScalar(t1) && IsScalar(t2) && IsScalar(t
44     && IsScalar(b) && IsScalar(sigma) && IsScalar
45     && IsScalar(sampl))
46     error('Parameters must be scalar.');
```

47 end

```

1 48 if ~(numel(j) == 1 && isnumeric(j) &&...
49     (j > 0) && (round(j) == j) && j < 6 );
50     error('The number of levels must be a positive in
51 end
1 52 if (tMin >= tMax)
53     error('t_min must be less than t_max');
```

54 end

```

1 55 if ~(t1 >= 0 && t2 >= t1 && t3 > t2 && t3 <= 1)
56     error('t1, t2 and t3 must satisfy 0 <= t1 <= t2 <
57 end
58
59
60 % Convert the image to gray scale.
0.02 1 61 inImg = im2single(mear(inImg,3));
62
1 63 if sampl && min(size(inImg)) <= 2^j
64     error('The input image is too small to be downsam
65 end
66
67 % If sigma is specified as 0 the user is prompted to
68 % image that is adequate for estimating the standard
69 % noise.
0.02 1 70 logImg = log(inImg+eps);
1 71 if sigma == 0
72     [upperLeft lowerRight] = getUserCoordinates(inImg
73     rows = min(upperLeft(1,2),lowerRight(1,2)):max(lc
74     cols = min(upperLeft(1,1),lowerRight(1,1)):max(lc
75     imgSelection = logImg(rows,cols);
76     sigma = std(imgSelection(:));
77 end
78
79 % Compute the function table for the enhancement func
1 80 res = 0.001; %table resolution
< 0.01 1 81 s = -1; %lower bound for table
< 0.01 1 82 e = 1; %upper bound for table
1 83 egagTable = egag(s:res:e, b, c, t1, t2, t3);
84
```