roundSpot (Calls: 500, Time: 11.808 s)

Parents (calling functions)

Function Name	Function Type	Calls
ImageProcessing	Script	500

Lines that take the most time

Line Number	Code	Calls	Total Time (s)	% Time	Time Plot
26	if(imageGS(y, x) ~= 0)	21456047	0.938	7.9%	▮
37	if(imageGS(y, x) ~= 0)	21457299	0.878	7.4%	▮
59	if(imageGS(y, x) ~= 0)	21457299	0.798	6.8%	▮
24	y = topLeftY;	21456047	0.790	6.7%	▮
32	end	21455846	0.780	6.6%	▮
All other lines			7.624	64.6%	▬▬▬
Totals			11.808	100%	

Children (called functions)

No children

Code Analyzer results

No Code Analyzer messages.

Coverage results

Show coverage for parent folder

Total lines in function	71
Non-code lines (comments, blank lines)	14
Code lines (lines that can run)	57
Code lines that did run	57
Code lines that did not run	0
Coverage (did run/can run)	100.00 %

Function listing

Time	Calls	Line	
		1	`function [spotX, spotY] = roundSpot(imageGS)`
< 0.001	500	2	`    pxH = length(imageGS);`
0.006	500	3	`    pxW = length(imageGS(1, :));`
		4	
< 0.001	500	5	`    imgCenterX = pxW / 2;`
< 0.001	500	6	`    imgCenterY = pxH / 2;`
		7	
< 0.001	500	8	`    spotX = 0;`
< 0.001	500	9	`    spotY = 0;`
		10	
< 0.001	500	11	`    isFlag = false;`
		12	
0.002	500	13	`    for  rad = 0 : imgCenterX`
0.003	75379	14	`        topLeftX = imgCenterX - rad + 1;`
0.003	75379	15	`        topLeftY = imgCenterY - rad + 1;`
0.003	75379	16	`        topRightX = imgCenterX + rad;`
0.003	75379	17	`        topRightY = imgCenterY - rad + 1;`
0.003	75379	18	`        bottomRightX = imgCenterX + rad;`
0.002	75379	19	`        bottomRightY = imgCenterY + rad;`
0.003	75379	20	`        bottomLeftX = imgCenterX - rad + 1;`
0.003			

Time	Calls	Line	Code
		22	
0.005	75379	23	`        for x = topLeftX : topRightX`
0.790	21456047	24	`            y = topLeftY;`
		25	
0.938	21456047	26	`            if(imageGS(y, x)  ~= 0)`
< 0.001	201	27	`                spotX = x;`
< 0.001	201	28	`                spotY = y;`
< 0.001	201	29	`                isFlag = true;`
< 0.001	201	30	`                break;`
0.719	21455846	31	`            end`
0.780	21455846	32	`        end`
		33	
0.005	75379	34	`        for x = bottomLeftX : bottomRightX`
0.693	21457299	35	`            y = bottomLeftY;`
		36	
0.878	21457299	37	`            if(imageGS(y, x)  ~= 0)`
< 0.001	190	38	`                spotX = x;`
< 0.001	190	39	`                spotY = y;`
< 0.001	190	40	`                isFlag = true;`
< 0.001	190	41	`                break;`
0.716	21457109	42	`            end`
0.720	21457109	43	`        end`
		44	
0.004	75379	45	`        for y = topLeftY : bottomLeftY`
0.666	21456770	46	`            x = topLeftX;`
		47	
0.723	21456770	48	`            if(imageGS(y, x)  ~= 0)`
< 0.001	192	49	`                spotX = x;`
< 0.001	192	50	`                spotY = y;`
< 0.001	192	51	`                isFlag = true;`
< 0.001	192	52	`                break;`
0.674	21456578	53	`            end`
0.684	21456578	54	`        end`
		55	
0.004	75379	56	`        for x = topRightY : bottomRightY`
0.642	21457299	57	`            y = topRightX;`
		58	
0.798	21457299	59	`            if(imageGS(y, x)  ~= 0)`
< 0.001	190	60	`                spotX = x;`
< 0.001	190	61	`                spotY = y;`
< 0.001	190	62	`                isFlag = true;`
< 0.001	190	63	`                break;`
0.651	21457109	64	`            end`
0.663	21457109	65	`        end`
		66	
0.004	75379	67	`        if (isFlag)`
< 0.001	395	68	`            break;`
0.003	74984	69	`        end`
0.007	74984	70	`    end`
0.002	500	71	`end`