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| **Function** | **Description** | **Parameters** | **Page on Thesis** |
| Main | Used to execute the code | Image name and path | N/A |
| MainCode | Called by Main during each iteration | Image name, path, range of radii, resize factor | N/A |
| frst2d | Fast Radial Symmetry algorithm | Image, radii range, alpha (constant = 2), stdFactor (constant = 0.1) | 15 |
| dist2points | Calculates Euclidean distance between 2 points | Coordinates of the 2 points | N/A |
| div | Calculates divergence factor for edge-to-seed-point association | Image, list of seed-points, list of edge-points | 19 |
| angle2points1 | Calculates angle between 2 points (between 0 and 2\*pi) | Coordinates of the 2 points | N/A |
| angle2points | Calculates angle between 2 points (between -pi and pi) | Coordinates of the 2 points | N/A |
| preprocessing | Binarizes an image | Threshold factor | 26 |
| EllipseDirectFit | Fits an ellipse into the given data points | List of data points | 22 |
| drawarc | Draws a circular arc between 2 points using their linked seed-point | Association matrix E, the 2 points for drawing arc | 21 |
| drawellipse | Calculates standard ellipse parameters from equation, and draws ellipse between 2 points | Association matrix E, the 2 points for drawing arc, ellipse equation coefficients | 27 |