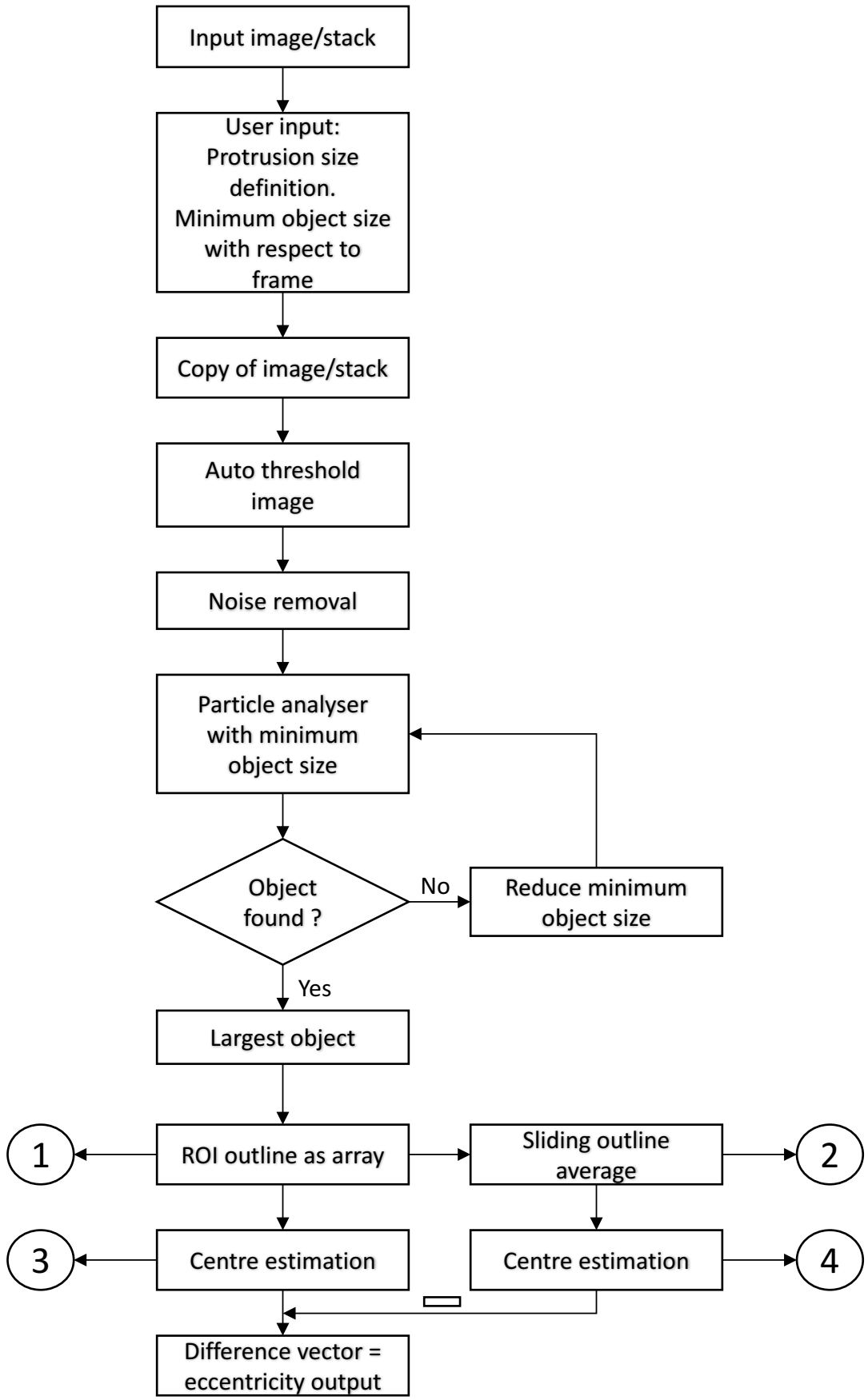
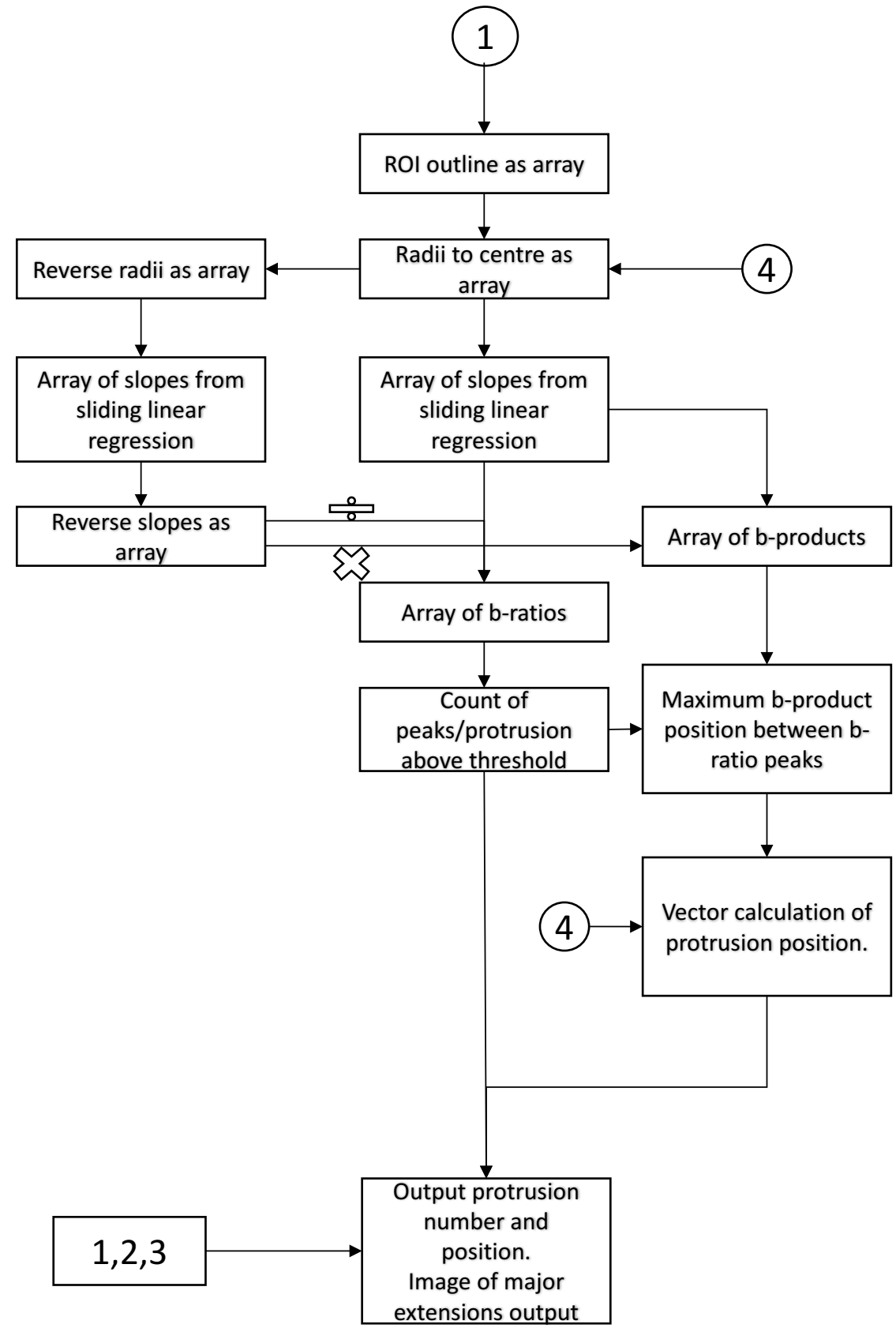

Input image/stack
User input: Protrusion size definition. Minimum object size with respect to frame
Copy of image/stack
Auto threshold image
Noise removal
Particle analyser with minimum object size
Object found ?
No
Reduce minimum object size
Yes
Largest object
1
ROI outline as array
Sliding outline average
2
3
Centre estimation
Centre estimation
4
Difference vector = eccentricity output


1
ROI outline as array
Radii to centre as array
4
Reverse radii as array
Array of slopes from sliding linear regression
Array of slopes from sliding linear regression
Reverse slopes as array
Array of b-products
Array of b-ratios
Count of peaks/protrusion above threshold
Maximum b-product position between b-ratio peaks
4
Vector calculation of protrusion position.
1,2,3
Output protrusion number and position. Image of major extensions output