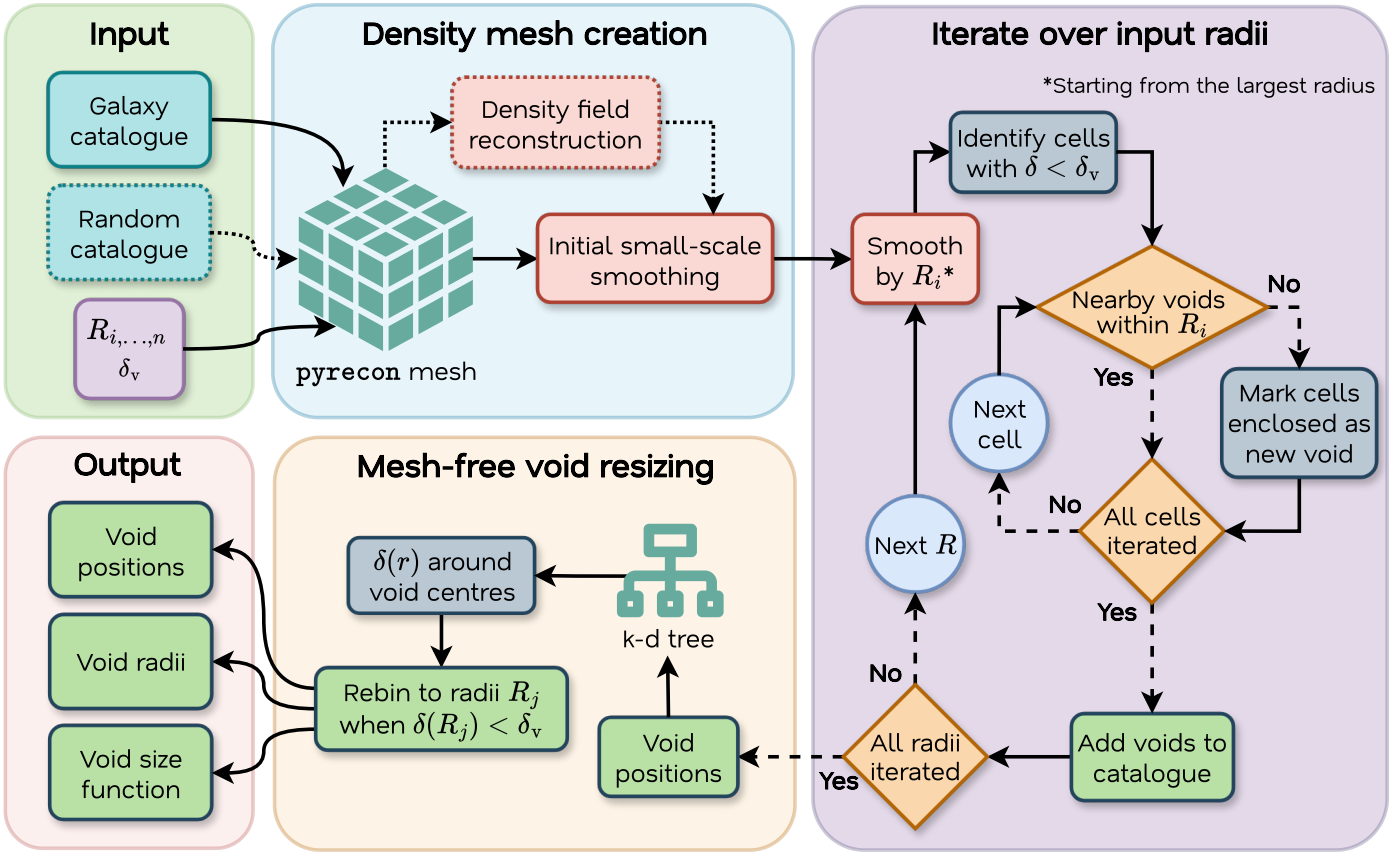
Input
Galaxy catalogue
Random catalogue
$R_{i,\ldots,n}$
$\delta_v$
Density mesh creation
Density field reconstruction
Initial small-scale smoothing
pyrecon mesh
Iterate over input radii
*Starting from the largest radius
Smooth by $R_i$*
Identify cells with $\delta < \delta_v$
Nearby voids within $R_i$
No
Yes
Mark cells enclosed as new void
Next cell
All cells iterated
No
Yes
Next $R$
All radii iterated
No
Yes
Add voids to catalogue
Output
Void positions
Void radii
Void size function
Mesh-free void resizing
$\delta(r)$ around void centres
k-d tree
Rebin to radii $R_j$ when $\delta(R_j) < \delta_v$
Void positions