create image mask that finds the edge of known sized hole and then mask outside of the hole at high magnification images

11/04/2015 11:11 AM - Anchi Cheng

Status: Assigned  Start date: 11/04/2015
Priority: Normal  Due date:
Assignee: Carl Negro  % Done: 0%
Category:  Estimated time: 0.00 hour
Target version: Appion/Leginon Future Version  Spent time: 0.00 hour

Description
None of the existing automasking uses the size of the hole. With known size, the curvature is defined. This should be very doable.

We can find edge easy enough with edge finding and a few dilation and merging. But need a simple algorithm to decide which side is inside.

Test session: 15jul20g
Image preset: non-hidden en-b
Control manual mask run: manualmask2 (/gpfs/appion/acheng/15jul20g/mask/manualrun2/masks)

History
#1 - 11/06/2015 10:39 AM - Anchi Cheng

code for creating a disk or ring in

/your_myami/apppion/appionlib/apCrud.py function makeDisk(radius)

change

minradsq=0

to

minradsq=radius*radius*0.9*0.9

gives you a ring from 90% or the radius to the radius.

The output is a numpy array.