1 Comparison of bubble detectors and size distribution estimators

Bubble(circular objects) dtection algorithms can be divided into two approaches, geometry-based and appearance-based.

Geometry-based approaches detects parameterized circular objects in the image edge map.

Drawbacks: Sensitive to noise, high false positive rate.

Appearance-based appraches using sliding window combining with a classier like boosting based, Hog based and CNN classifier

Drawbacks: need large amount of training data.