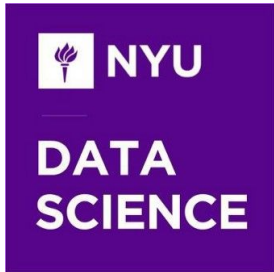


# Weakly-supervised High-resolution Segmentation of Mammography Images for Breast Cancer Diagnosis

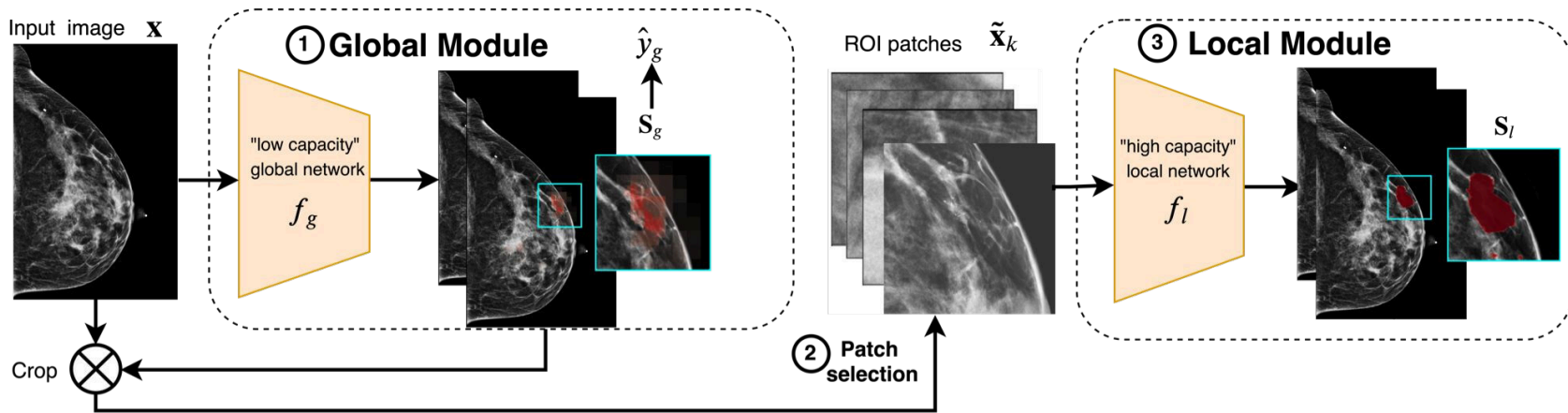
*GLAM (Global-Local Activation Maps)*

*<https://github.com/nyukat/GLAM>*



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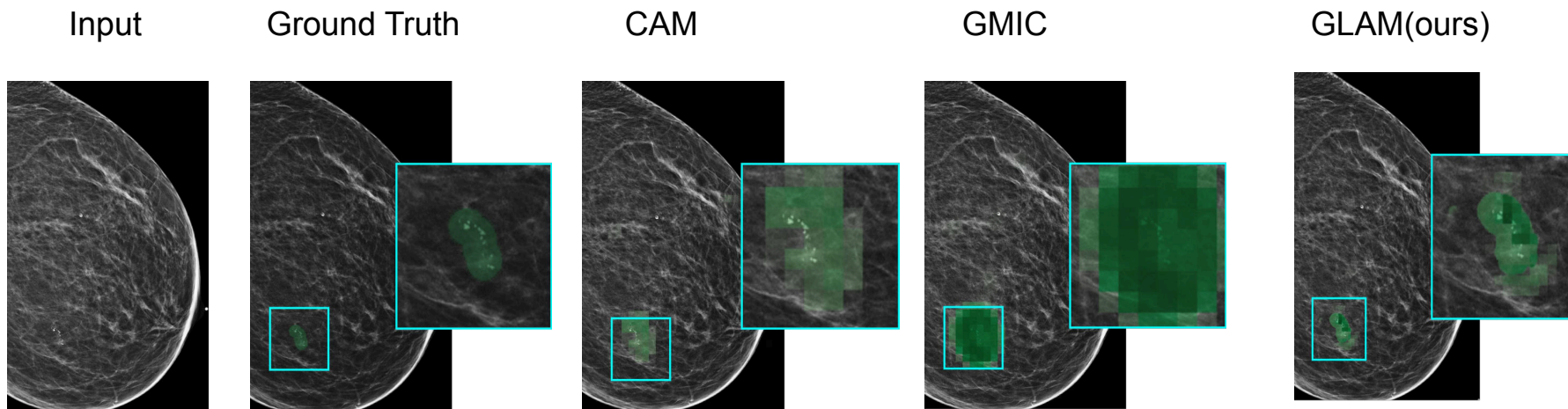
# GLAM (Global-Local Activation Maps)



1. The global network is applied to the whole image to obtain a **coarse** image-level saliency map;
2. Based on this coarse-level segmentation, several **patches** are **extracted** from the input image;
3. The local network processes these patches to generate a **high-resolution saliency** map.

# Results on real mammography data

Our method provides much more fine-grained segmentation than the previous methods.



CAM : Zhou et al. "Learning deep features for discriminative localization." CVPR 2016.

GMIC: Shen et al. "An interpretable classifier for high-resolution breast cancer screening images utilizing weakly supervised localization." *Medical image analysis* 68 (2021)