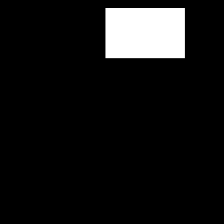
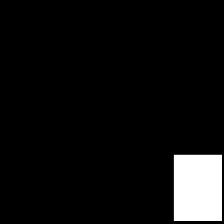
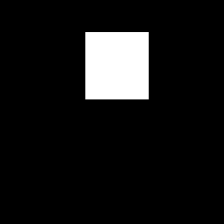
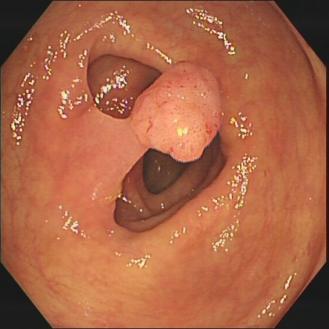
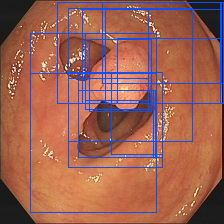
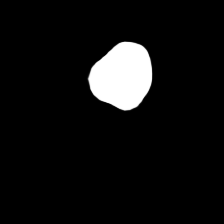
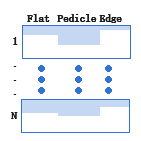
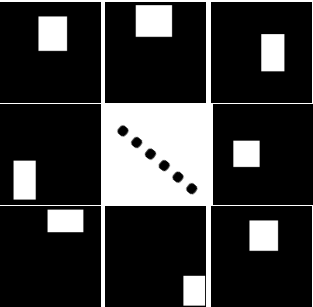
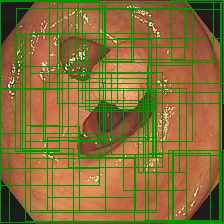
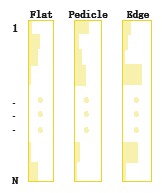
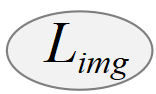


**......**





PraNet backbone

Pseudo segmentation map **P**

Proposals masks **B**

**Cross-referenced module**

**Multiple instance branch**

FC

Softmax\_c

GAP

Conv\_cls

**...**

**Space category module**

Softmax\_d

**...**

FC

FC

Image-level scores

Trained Proposal

Selective search

Input Image **I**

Feature **x**

Backbone

(VGG 16)



**RoI Pooling**