

Input Image **I**

Original Proposals

Selective

search

PraNet backbone

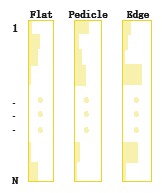


**Category threshold**

**Region threshold**

**Dual-threshold postprocessing**

**...**



FC

FC



FC

Image-level scores

Softmax\_d

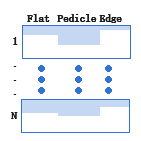
**Multiple instance branch**

**...**

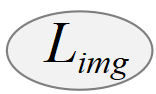
Conv\_cls

Softmax\_c

**Space category module**



GAP



Pseudo segmentation map **P**

Proposals masks **B**

**Cross-referenced module**

Trained Proposal

Feature **x**

Backbone

(VGG 16)

**RoI Pooling**