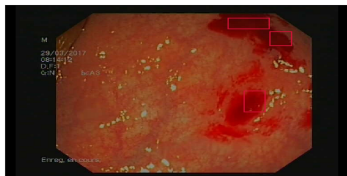
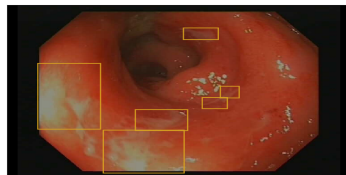


Automatic detection of ulcerative colitis lesions in colonoscopy videos

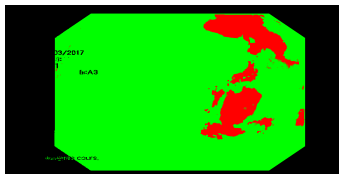
Objective : Detect bleeding and ulcers



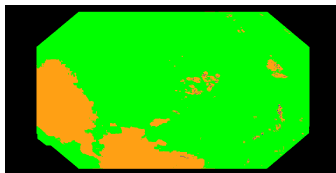
Bleeding annotations



Ulcer annotations



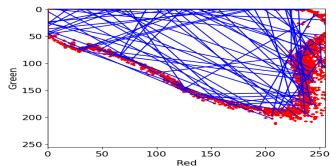
Detected bleeding



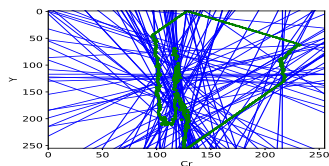
Detected ulcers

Find best linear classifier in RGB or YCbCr color space

- ➔ Sampling strategy to avoid trivial classifiers

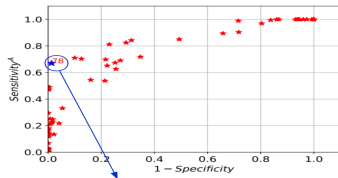


Classifiers for bleeding detection

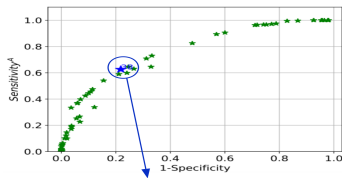


Classifiers for ulcer detection

- ➔ Modified **Sensitivity** does not penalise wrong pixels annotations



$$G < 0.193R - 0.758$$



$$Y \geq 0.611Cr - 2.947$$