

Appendix

The following are the performance evaluation parameters for detecting the cancer regions in cervical images.

$$Accuracy = \frac{TP+TN}{N} \times 100 \quad (29)$$

Where, N is the total number of images.

$$Sensitivity = \frac{TP}{TP+FN} \quad (30)$$

$$Specificity = \frac{TN}{TN+FP} \quad (31)$$

$$Positive\ predictive\ value\ (PPV) = \frac{TP}{TP+FP} \quad (32)$$

$$Negative\ predictive\ value\ (NPV) = \frac{TN}{TN+FN} \quad (33)$$

$$Likelihood\ Ratio\ Positive\ (LRP) = \frac{Sensitivity}{100-Specificity} \quad (34)$$

$$Likelihood\ Ratio\ Negative\ (LRN) = \frac{100-Sensitivity}{Specificity} \quad (35)$$

$$Precision = TP / (TP+FP) \quad (36)$$

$$False\ Positive\ Rate\ (FPR) = FP / (FP+TN) \quad (37)$$

$$False\ negative\ rate\ (FNR) = FN / (TP+FN) \quad (38)$$