**Table 1 – List of 8 features used for this experiment**

|  |  |
| --- | --- |
| Feature 1 | Standard deviation of gray levels inside the 2D candidate |
| Feature 2 | RGI outside the 2D candidate |
| Feature 3 | TGI outside the 2D candidate |
| Feature 4 | Matsushita distance of normalized histograms in the gray scale image |
| Feature 5 | Mode of the histogram inside the lesion candidate in the gray scale image |
| Feature 6 | Maximum of the histogram inside the lesion candidate in the gray scale image |
| Feature 7 | Maximum of the histogram outside the lesion candidate in the gray scale image |
| Feature 8 | Mean voxel intensity in the Sobel image |

**Note:**

Features 1 to 8 correspond to features 33, 38, 39, 49, 52, 53, 57 and 60 in the original dataset with 79 features. These features are selected from the original dataset with the goal of maximizing the AUC. A sophisticated feature selection algorithm called Binary Coordinate Ascent (BCA) [1] was applied for this task.

**Reference:**

Zarshenas A, Suzuki K (2016) Binary coordinate ascent: An efficient optimization technique for feature subset selection for machine learning. Knowledge-Based Syst 110:191–201.