

Variables Dictionary

Ten real-valued features are computed for each cell nucleus:

- a) Radius (mean of distances from center to points on the perimeter)
- b) Texture (standard deviation of gray-scale values)
- c) Perimeter
- d) Area
- e) Smoothness (local variation in radius lengths)
- f) Compactness ($\text{perimeter}^2 / \text{area} - 1.0$)
- g) Concavity (severity of concave portions of the contour)
- h) Concave points (number of concave portions of the contour)
- i) Symmetry
- j) Fractal dimension ("coastline approximation" - 1)

The mean, standard error and "worst" or largest (mean of the three largest values) of these features were computed for each image, resulting in 30 features.