

Table S1. GLCM Texture Features

Features	Definitions
Autocorrelation	$\sum_{i=0}^N \sum_{j=0}^N (i * j) * P(i, j))$
Cluster prominence	$\sum_{i=0}^N \sum_{j=0}^N (i + j - 2\mu)^3 * P(i, j))$
Cluster shade	$\sum_{i=0}^N \sum_{j=0}^N (i + j - 2\mu)^4 * P(i, j))$
Contrast	$\sum_{i=0}^N \sum_{j=0}^N ((i - j)^2 P(i, j))$
Correlation1	$\frac{\sum_{i=0}^N \sum_{j=0}^N ((i, j) P(i, j)) - M_x M_y}{\sigma_x \sigma_y}$
Correlation2	$\frac{\sum_{i=0}^N \sum_{j=0}^N (i - \mu_x)(j - \mu_y) P(i, j)}{\sigma_x \sigma_y}$
Difference entropy	$- \sum_{k=0}^{N-1} P_{x-y}(i) \log (P_{x-y}(k))$
Difference variance	$\sum_{k=0}^{N-1} (k - \mu_{x-y})^2 P_{x-y}(k)$
Dissimilarity	$\sum_{i=0}^N \sum_{j=0}^N i - j * P(i, j))$
Energy	$\sum_{x=0}^N \sum_{y=0}^N (P^2(i, j))$
Entropy	$\sum_{i=0}^N \sum_{j=0}^N p(i, j) \log (P(i, j))$
Homogeneity1	$\sum_{i=0}^N \sum_{j=0}^N \frac{1}{1 + (i - j)^2} * P(i, j)$
Homogeneity2	$\sum_i \sum_j \frac{1}{1 + i - j } * P(i, j)$
Maximum probability	$Max_{i,j} P(i, j)$
Sum average	$\sum_{k=0}^{2N-2} k P_{x+y}^{(k)}$
Sum entropy	$- \sum_{k=0}^{2N-2} P_{x+y}(k) \log (P_{x+y}(k))$
Sum of squares (Variance)	$\sum_{i=0}^N \sum_{j=0}^N (k - \mu)^2 P(i, j)$
Sum variance	$\sum_{k=2}^{2N} (k - \mu_{x+y})^2 P_{x+y}^{(k)}$

Information measure of correlation1	$\frac{HXY - HXY1}{\text{Max}(HX, HY)}$
Information measure of correlation2	$\sqrt{(1 - \exp[-2(HXY2 - HXY)])}$
Inverse difference	$\sum_{i=0}^N \sum_{j=0}^N \frac{P(i, j)}{1 + i - j }$
Inverse difference normalized (INN)	$\sum_{k=0}^{N_g-1} \frac{P_{i-y}(k)}{1 + (\frac{k}{N_g})}$
Inverse difference moment normalized	$\sum_{k=0}^{N_g-1} \frac{P_{i-y}(k)}{1 + (\frac{k^2}{N_g^2})}$
Kurtosis	$\frac{1}{m * n} \times \frac{\sum (P(i, j) - M)^4}{SD^4}$
Skewness	$\frac{1}{m * n} \times \frac{\sum (P(i, j) - M)^3}{SD^3}$
Maximal correlation coefficient	$\sum_k \frac{P(i, k)P(j, k)}{P_x(i)P_y(j)}$
Mean	$\frac{1}{N_g^2} \sum_i \sum_j P(i, j)$

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