Image Classification II







Signature Evaluation

- Alarm (i.e., preview using parallelepiped classifier)
- Ellipse (mean & stdv)
- Contingency matrix (based on pixels within training sites)
- Separability
 - Euclidean Distance
 - Divergence
 - Transformed Divergence (0 2000, > 1700)
 - Jefferies-Matusita Distance (0 1414)
- Statistics & histograms
 - Small variations preferred























Second-order Texture Statistics

- Stats based on paired pixels
 - Variogram
 - Fourier Analysis
 - Gray-Level Co-occurrence Matrices







Ancillary Data Increase feature space dimensionality so that information classes can be more easily separated For example, elevation and vegetation distribution (In)compatibility Physical (data format, resolution, etc.) Logical (do the values used to define the feature space make sense?)

















	Fuzzy	[,] Signa	atures	
Training sites (homogeneous vs. fuzzy) Fuzzy partition matrix				
	Class#1	Class#2	Class#3	
Site#1	0.7	0.2	0.1	0
Site#2	0.2	0.2	0.4	0
	0.5			
Site#3				