

Fingerprint Analysis

Sensitivity, specificity and quality (sensitivity + specificity) for the best and 200th best decision tree constructed from any of the 300 peak intensities. The evolutionary programming search used a population size of 200 and ran for 400 generations. A decision node became a terminal node when it contained 1% (no samples) or 4% (1 sample) of a given State.

Metric	1%		1%		4%		4%	
	1 st	200 th						
Sensitivity	92.9	90.5	92.9	83.3	88.1	85.7	88.1	95.2
Specificity	95.2	95.2	92.9	95.2	95.2	95.2	95.2	85.7
Quality	188.1	185.7	185.7	178.6	183.3	181.0	183.3	181.0

Sensitivity, specificity and quality (sensitivity + specificity) for the best and 200th best medoid classifier algorithm in each of the two runs using 5-, 6-, and 7-peak intensities from the set of 300. The evolutionary programming search used a population size of 400 and ran for 800 generations with the requirement that there are at most 28 Case-cells and 28 Control-cells.

Metric	5-Features		5-Features		6-Features		6-Features		7-Features		7-Features	
	1 st	200 th										
Sens	100.0	100.0	95.2	88.1	100.0	100.0	97.6	90.5	100.0	100.0	97.6	92.9
Spec	95.2	88.1	100.0	100.0	97.6	90.5	100.0	100.0	97.6	92.9	100.0	100.0
Quality	195.2	188.1	195.2	188.1	197.6	190.5	197.6	190.5	197.6	192.9	197.6	192.9

(Last updated 4/21/07)