```
function [knowledge_vector] = MASS_calc_knowledge(prediction_vector_array, predicted_class_vector, delta_vector,
modal_probability_vector, num_classes, N)

  num_testing_rows = size(prediction_vector_array,2);

for i = 1 : num_testing_rows

  cluster_size = size(prediction_vector_array{i},2);

  %if true, then the cluster is not empty, so calculate confidence
  if(delta_vector(i) != 0)

    I = cluster_size*spec_log_BlackTree(num_classes);
    V = (4/3)*pi*delta_vector(i)^3;
    knowledge_vector(i) = I/V;

  %otherwise it's empty, confidence is zero
  else

    knowledge_vector(i) = 0;

  endif

endfor
```