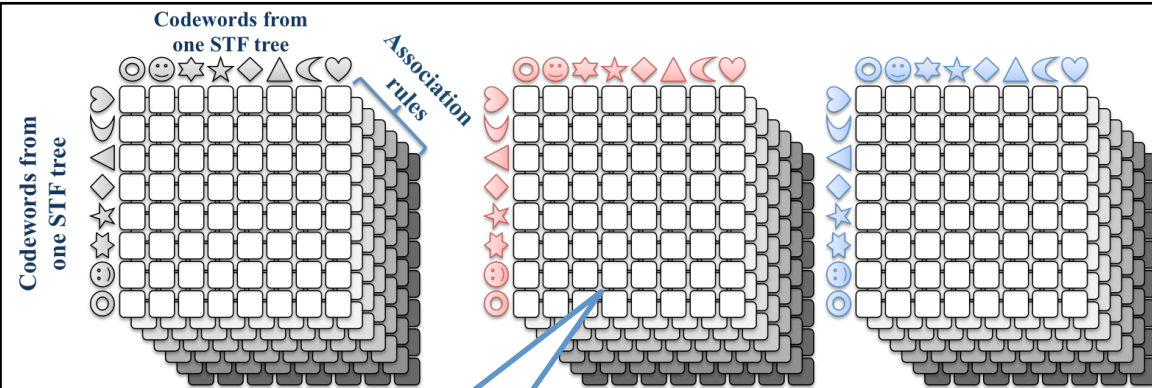


A semantic texton forest (STF) contains multiple decision trees. Each decision tree translates a spatiotemporal cuboid to a visual codeword.



3-D histograms are constructed for the STF. Each histogram corresponds to one decision tree in the STF.

A histogram bin is associated with a pair of codewords and an association rule in equation 4.4. The size of a histogram is $L_m \times L_m \times |R|$.

The bin (\star, C , r_1) is increased by one when a feature pair (\star, C) follows the association rule r_1 .

Every possible pair of codewords is tested with respect to the association rules; if a codeword pair follows one of the association rules, the corresponding histogram bin is increased by one.