Mining statistically independent source. Var (x) = <(x-<x7)2 > 2 <x27 - <x72 = 4 we wy < Si Syr - 4 wiwy < si>< syr = \(\int_{\int_{ij}} \int_{ij} \) \(\leq \(\leq \) \ (4sis, > - 2si> < s,>) = \(\wi^2 \left(\left\ si^3 \rangle - \left\ si^2 \right\ \left\ \wi \wi \ki \ki \ki \ki \right\ \left\ \ Si and S, are startically independent for its Also, Var (Si) = 1 To guarantee that the museline has unit variance . Z wi =1 The following constraint has to be unpoused on the weight wi for the minture to have unit variance. Z Wi2 2 1