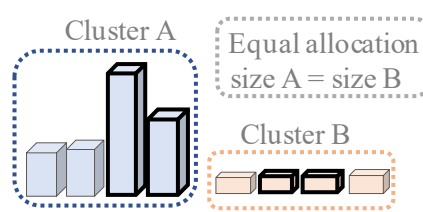
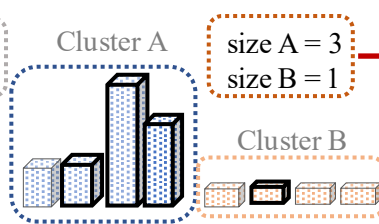


(a) Importance Sampling



(b) Cluster Sampling



(c) HCSFed (Ours)

Sample Size Reallocation

 Selected Gradient

 Not Selected Gradient

 **Compressed Gradient**