

Figure 1. Recall-QPS evaluation.  $K = 100$ . PEOs(H) denotes HNSW+PEOs and PEOs(N) denotes NSSG+PEOs.

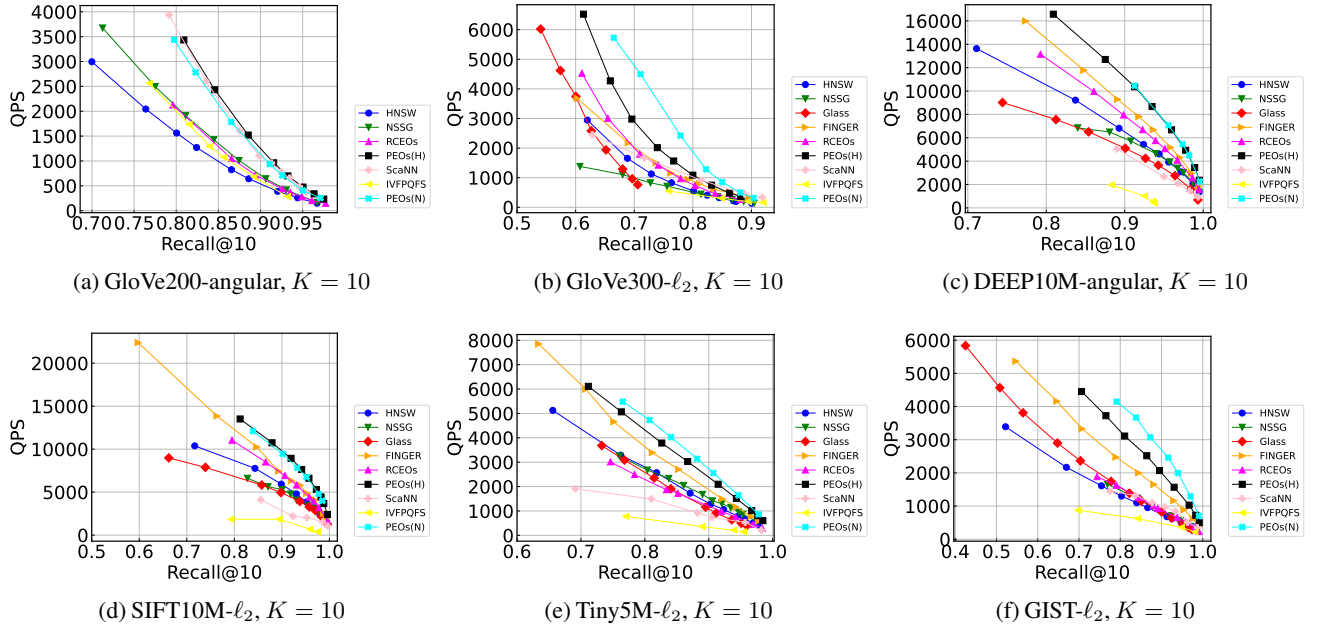


Figure 2. Recall-QPS evaluation,  $K = 10$ . PEOs(H) denotes HNSW+PEOs and PEOs(N) denotes NSSG+PEOs.

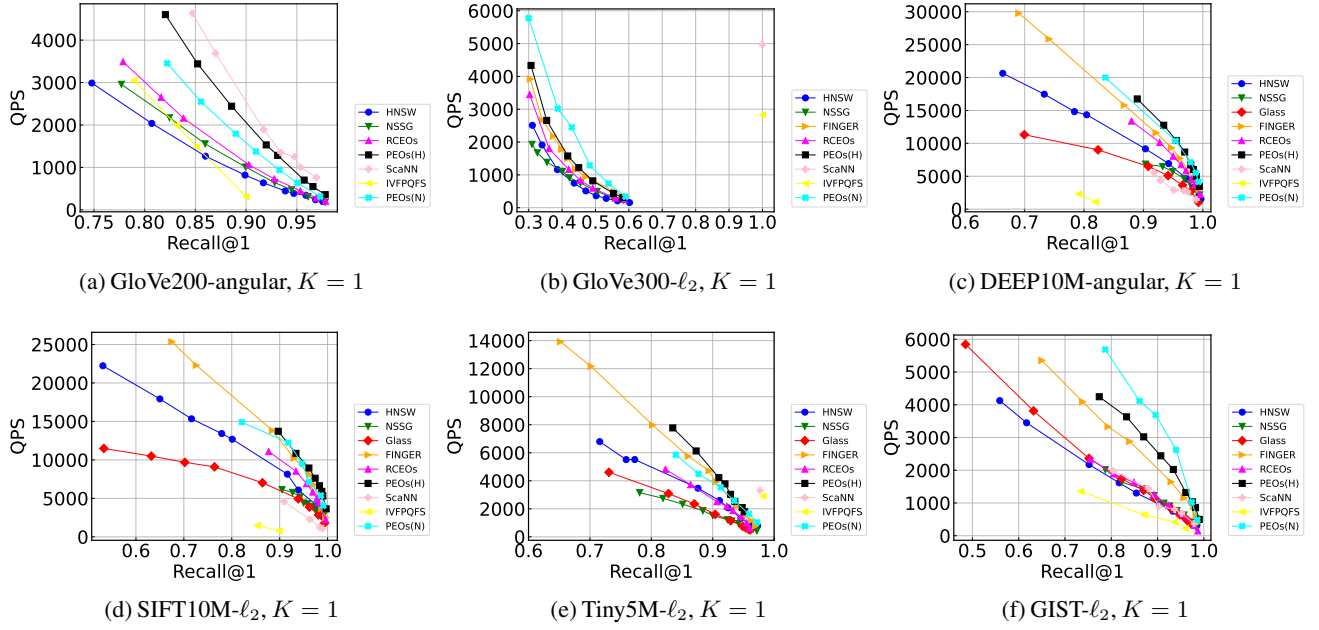


Figure 3. Recall-QPS evaluation,  $K = 1$ . PEOs(H) denotes HNSW+PEOs and PEOs(N) denotes NSSG+PEOs.

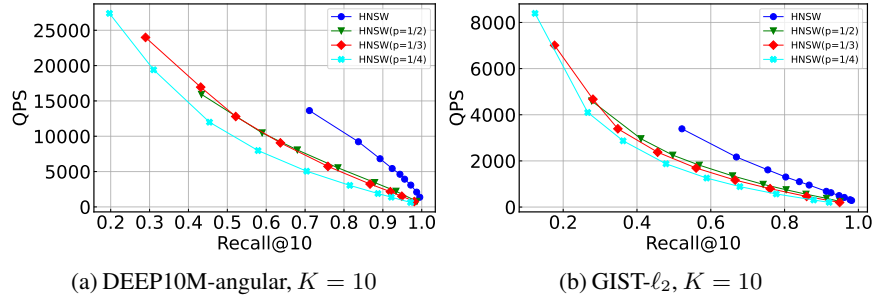


Figure 4. The effect of random selection.

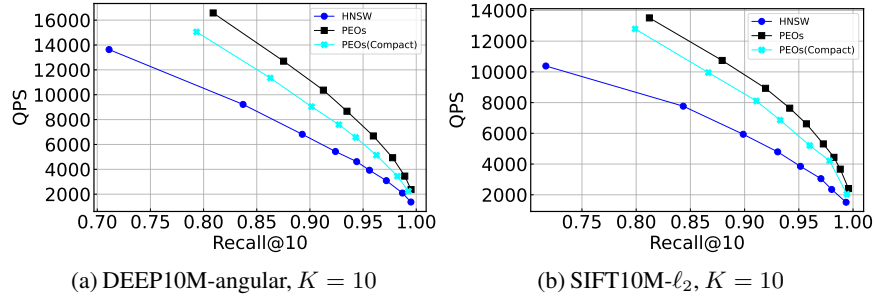
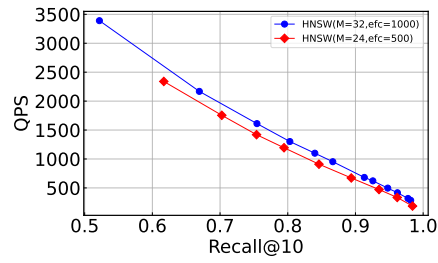


Figure 5. The performance of PEOs with reduced size.



(a) DEEP10M-angular,  $K = 10$

Figure 6. The effect of different parameters on GIST.