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|---|---|
| $n$ | granularity of space decomposition |
| $k$ | number of nearest neighbors |
| $d$ | dimensionality |
| $D$ | a $d$-dimensional metric space |
| $dist(r, s)$ | the distance from $r$ to $s$ |
| $kNN(r, S)$ | the $k$ nearest neighbors of $r$ from $S$ |
| $AkNNC(R, S)$ | $\forall r \in R$ classify $r$ based on $kNN(r, S)$ |
| $ICCH$ | interval, cell cube or hypercube |
| $ICSH$ | interval, circle, sphere or hypersphere |
| $I$ | input dataset |
| $T$ | training dataset |
| $c_r$ | the class of point $r$ |
| $C_T$ | the set of classes of dataset $T$ |
| $S_I$ | size of input dataset |
| $S_T$ | size of training dataset |
| $M$ | total number of Map tasks |
| $R$ | total number of Reduce tasks |