Definitions and Conventional.

1. K: the k-anonymity value k=1,2,3….
2. k̄: ownership level of a user, k̄ = k-i, where i= {k-1, …,1}
3. N: the total number of records
4. m:the number of qid attributes
5. n: the maximum number of qid’s combinations in N
6. *n̄*: the number of actual combinations appear in *N*
7. P(qid): the probability of qid
8. q: the total number of equivalent records, q ≥ k
9. Q: the percentage of equivalency *Q* = q / N
10. ω min: the minimum probability is defined as the product of all qid’s probabilities
11. ωmax: the maximum probability value among qid’s
12. ω: the sensitivity factor
13. ψ: the sensitivity level
14. τ: aging factor
15. Ø: the obsolescence value
16. *y*:the object age / year
17. ρ: the participation percentage