An Improvement of Controlling Quality of Large Scale Water-Level Data in Thailand

1. Hypothesis (Research Objective):
   1. Problem: not support large scale data, so slow that it cannot be used in real work
   2. Save computation cost
      1. Missing pattern O(n^2) 🡪 O(nlogn)
      2. Outlier detection O(n)
      3. Experiment 🡪 Accuracy + time
   3. Speed( this ) > Speed( old )
   4. Speed( this ) > Speed( others ) &   
      Accuracy( this ) > Accuracy( others )

Structure

1. Abstract
2. Introduction
3. Large Scale Water-Level Data (How large)
4. Our Previous Data Quality Management
   1. Point out weakness
5. Proposed Algorithms for Large Scale Data
   1. Algorithm complexity
   2. Pseudo code
6. Experiment
   1. Time, Matching
7. System Implementation
   1. We do not only propose the new algorithm, but we also implement it and use it for the real work at HAII.
8. Conclusion
9. Reference