CODMINE Project

- funded by the European Union under the IST Program
- University of Milan
- Sabancy University
- Computer Technology Institute

Objectives:
- State-of-the-art
- Development of new algorithms
- Identification of an evaluation framework

Classification hierarchy of privacy preserving algorithms based on the following dimensions:

1. data distribution
   - centralized databases
   - distributed data

2. data modification (perturbation, blocking aggregation, swapping and sampling)

3. data mining algorithm
   - raw or aggregated data hiding

4. privacy preservation
   - heuristic-based techniques
   - cryptography-based techniques
   - reconstruction based techniques

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Future Work

- Development and evaluation of new hiding algorithms conceived for classification and clustering techniques
- Investigation of new evaluation criteria

References

Association Rule Hiding.
IEEE Transactions on Knowledge and Data Engineering (2003)

State-of-the-art in Privacy Preserving Data Mining.
To Appear in SIGMOD RECORD.

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