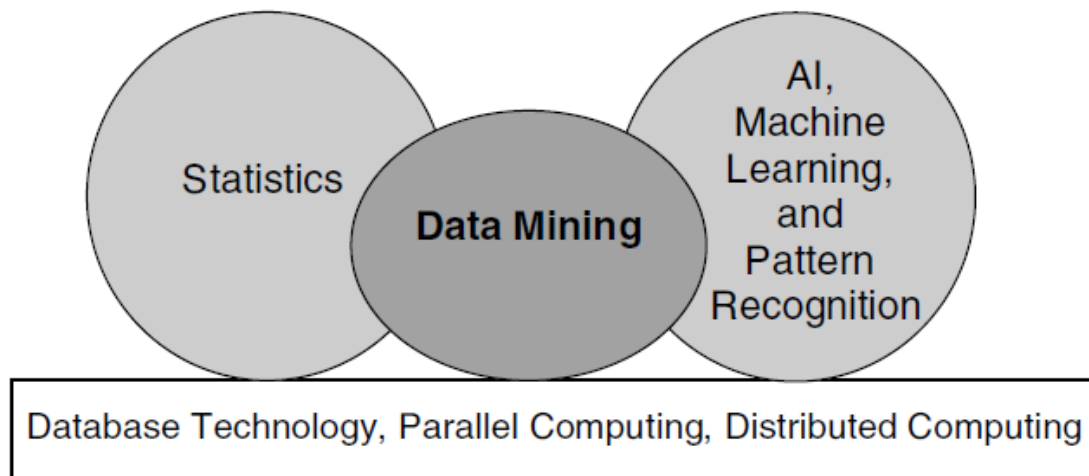# Definition
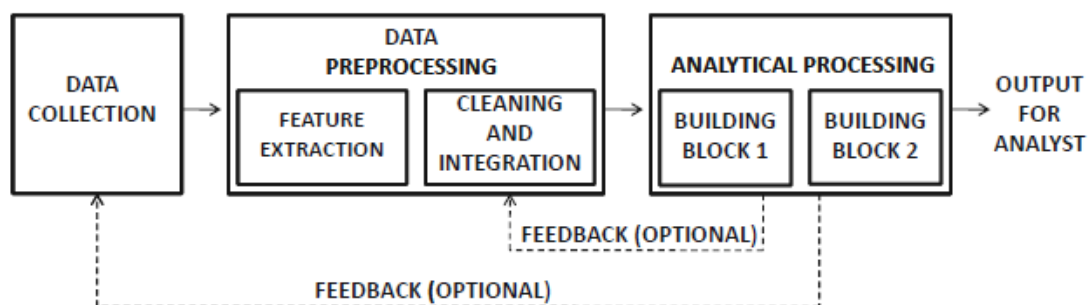

knowledge discovery from data

1. *Data cleaning*
2. *Data integration*
3. *Data selection*
4. *Data transformation*
5. *Data mining*
6. *Pattern evaluation*
7. *Knowledge presentation*

Work flow of Data Mining

Some part are same as Knowledge discovery

Data Type (Generalized)

Database Data

Data Warehouses

Transactional Data

Others

Data Type (Subdivision)

Non-dependency-oriented data

Quantitative Multidimensional Data

Categorical and Mixed Attribute Data

Binary and Set Data

Text Data

Dependency-oriented data

Implicit dependencies :

Explicit dependencies :

Contextual attributes :

Behavioral attributes:

Time-Series Data

Discrete Sequences and Strings

Spatial Data

Spatiotemporal Data

Network and Graph Data

Patterns Type

Characterization and Discrimination

Associations and Correlations

Classification and Regression

Cluster Analysis

Outlier Analysis

Others

Technologies

Statistics

Machine learning

Database Systems and Data Warehouses

Information Retrieval

Applications

Pattern recognition

Visualization

Algorithms

High-performance computing

Any topic has under line isn't discuss

Application

Business Intelligence

Web search Engines

Major issues

Mining Methodology

User Interaction

Efficiency and Scalability

Diversity of Database Types

Data Mining and Society