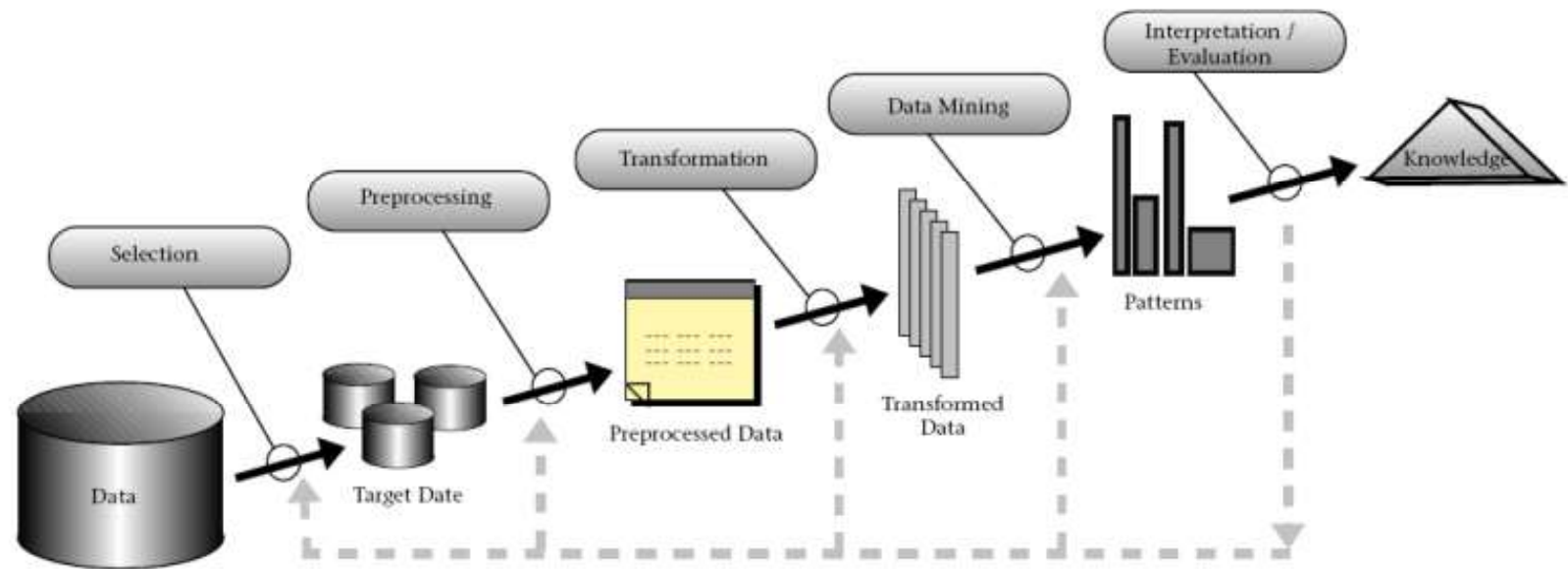# Data Mining and Knowledge Discovery
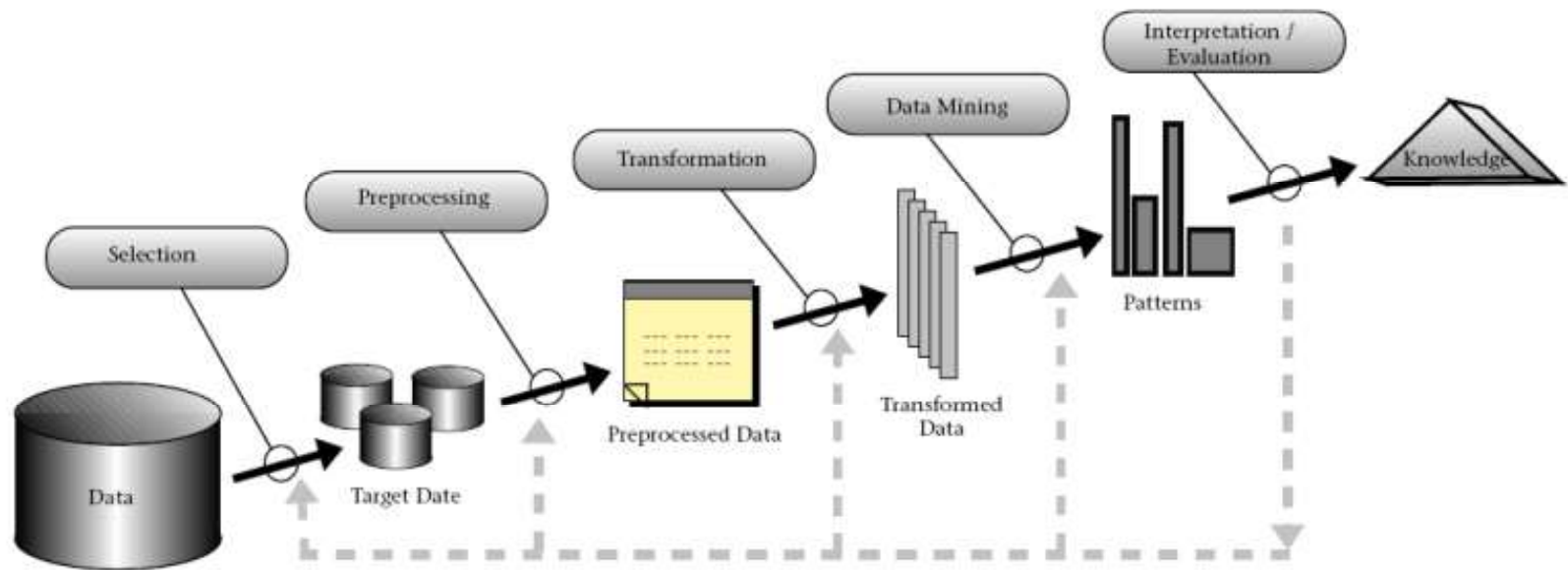
Knowledge Discovery System [Fayy96]:

- Problem definition
- Data collection
- Data cleaning and preprocessing
- Dimensionality reduction
- DM technique choice
- Data mining
- Interpretation and discovered knowledge production

Terminological ambiguity
Data Mining vs KDD

Data Mining and Knowledge Discovery

Knowledge Discovery System [Fayy96]:

- Wide scope approach

- Also interesting to better know very complex small datasets

Multidisciplinariety

Combination or hybridation of techniques

Data Mining and Knowledge Discovery

Domain
(complex)

?

KDD

| Data Analysis | Inductive Learning | Data Bases | Visualisation | GIS |

•Prediction

•Description

•Summary

•Overview

Discovered knowledge base

Domain model

•Validity

•Utility

•Simplicity/complexity

•Novelty

K. Gibert

UPC