

Topics for examinations, Part II



- application problems
- core ideas
- advantages
- drawbacks
- limitations

Topics for examinations, Part II

10. Deductive Databases

- extensional/intensional data bases
- declarative semantics
- derivation strategies
- safety conditions
- applications

11. Data Warehouses and OLAP

- application areas for data warehouses
- requirements for data warehouses
- dimensional modelling, schemata for OLAP
- OLAP operations
- data warehouses for unstructured data

Topics for examinations, Part II

12. Data Mining

- tasks and process model
- data types and data preprocessing
 - treatment of outliers
 - dimensionality reduction
- classification
 - distance-based methods
 - decision trees, random forests
 - evaluation of classifiers

Topics for examinations, Part II

12. Data Mining (cont.)

- clustering
 - partitioning clustering
- association rules
 - learning of association rules
 - classification with association rules
 - association rules for sequential observations

Topics for examinations, Part II

13. Document Retrieval

- problems
- vector space model
- evaluation

14. Text Mining

- content extraction
- opinion mining