

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

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. Multi-dimensional Index Structures

- types of queries
- R-trees
- problems with distance metrics in high-dimensional data spaces

14. Document Retrieval

- problems, data preprocessing
- vector space model
- evaluation

15. Web Mining

- page rank