FAKULTÄT
FÜR !NFORMATIK

Faculty of Informatics

Database and Artificial Intelligence Group
(DBAI)

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FACULTY OF !NFORMATICS

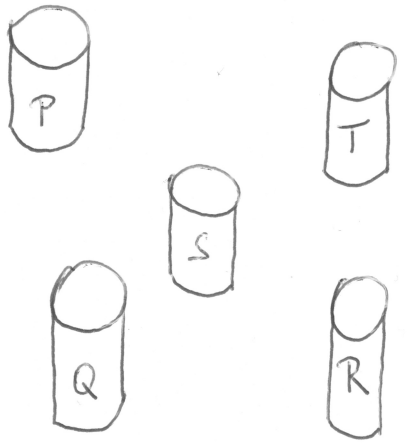
Overview of Research Activities

- Information Integration
- Web Information Extraction
- Argumentation
- Planning and Scheduling
- Reasoning
- Parameterized Complexity

Information Integration

Project: Service Oriented Data Integration

- Extend Web Services
- Foundations of Data Networks
- Optimization Tasks
- Select and mix Data Services



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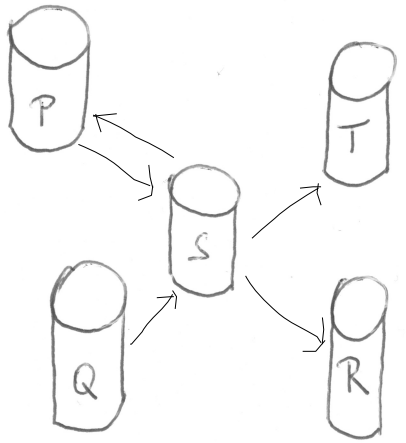
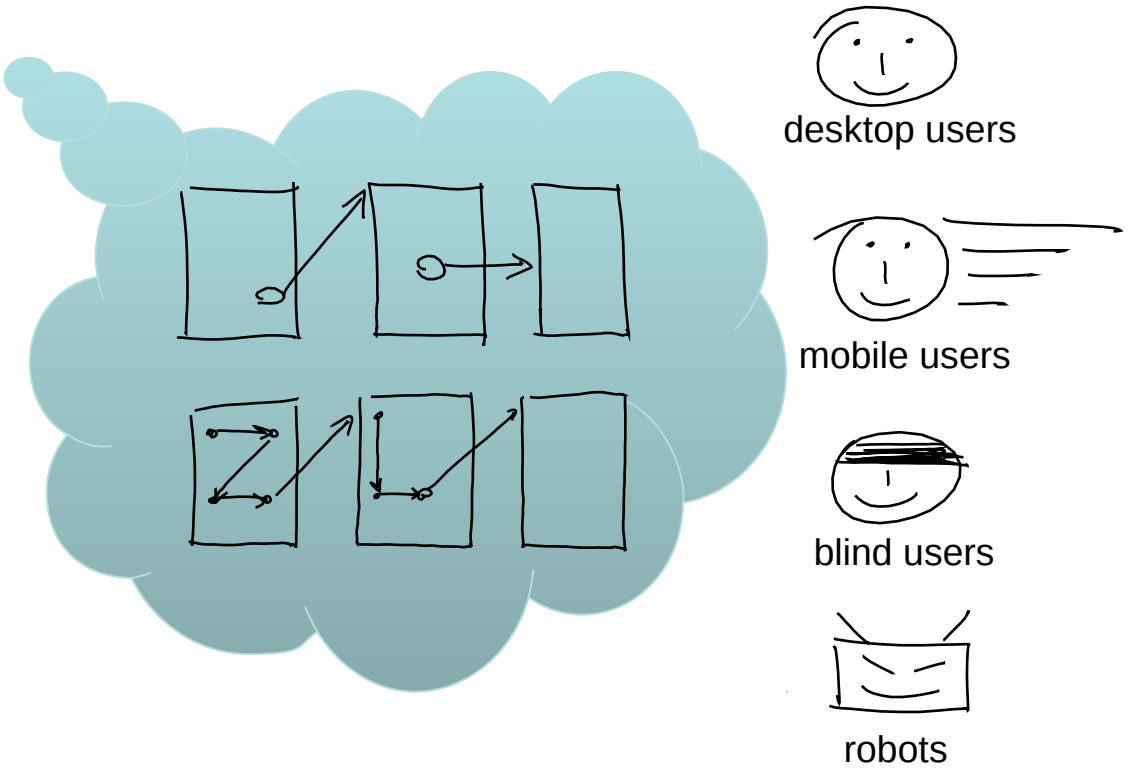


Web Information Extraction

Project: Task Mining from Crowd Behaviour

- Task Mining
- Task Model
- Functional Fingerprint
- Learning from Crowd Behaviour



Argumentation

Project: New Methods for Analyzing, Comparing, and Solving Argumentation Problems

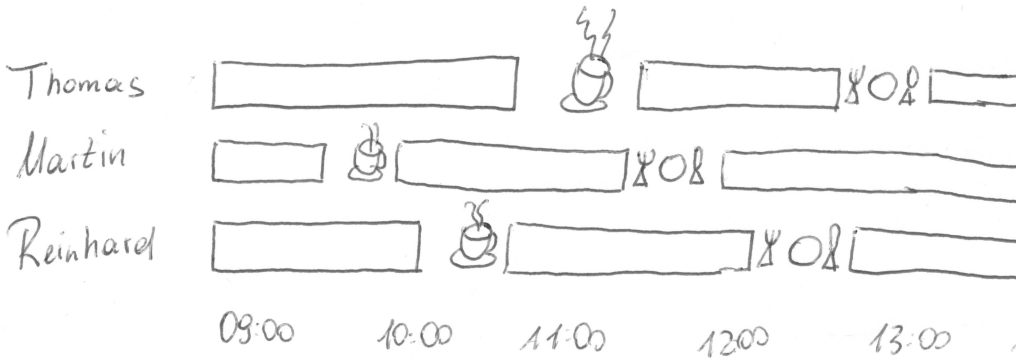
- Formal Models of Arguments,

  Relationships, Conflict Resolutior
- Different Semantics
- Complexity Analysis
- Uniform and Efficient System

Planning and Scheduling

Project: Test Support for End User Programming

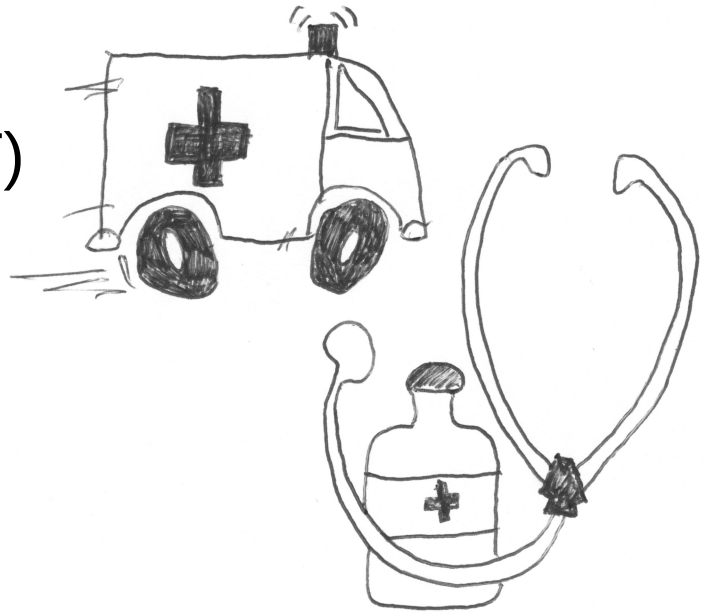
- Personnel Planning
- Test Case Generation for End User Programming
- Test Automation
- Meta-Heuristics and Constraint Programming



Reasoning, Parameterized Complexity

Project: Turning Theoretical Tractability into Efficient Computation

- Hard Reasoning Problems
- Fixed-Parameter Tractability (FPT)
- Efficient Computation
- Datalog, Dynamic Programming



Research and Teaching

Information Integration	Database Theory Foundations of Information Integration
Web Information Extraction	Web Data Extraction
Argumentation	Abstract Argumentation
Planning and Scheduling	Problem Solving and Search in AI Machine Learning
Reasoning	Deductive Databases
Parameterized Complexity	Complexity Theory