



Organization

Lecturers

Prof. Dr. Knut Hinkelmann



Prof. Dr. Holger Wache



Module Objective: Supporting Knowledge-Intensive Processes

- After completion of this module, the participants
 - ◆ will be able to assess which kind of knowledge representation and reasoning is adequate
 - ◆ are able to develop appropriate knowledge-based systems.
 - ◆ can value the advantages of knowledge-based systems with respect to their costs.
 - ◆ know Business Intelligence techniques to support business decisions with facts.
 - ◆ know approaches to turn data into knowledge that helps to make the right decisions.

Module Content

- Introduction: Knowledge in processes
- Decision Tables
- Rules
 - ◆ Textual represented rule (i.e. Horn clauses)
 - ◆ Forward and backward chaining
 - ◆ Data-driven and Goal-oriented
 - ◆ Negation-as-failure
- Object-centred Systems
 - ◆ F-Logic
- Fuzzy Logic
- Introduction into Business Intelligence
- Business Performance Management
- Multidimensional modeling
- Data Warehousing
- Data Mining
- Case-based reasoning

Module Organization

- Lectures: presentations, discussions, exercises
- Assignments/homework
 - ◆ Readings to prepare lectures
 - ◆ Exercises during weeks
- Credits: 6 ECTS

Module Schedule

March

Monday, 20th	11am - 1pm, 2pm - 4pm	AB1 Prof. Wache/Hinkelmann
Tuesday, 21st	9am - 1pm	AB1 Prof. Wache/Hinkelmann
Wednesday, 22nd	9am - 12pm	AB1 Prof. Wache/Hinkelmann
Monday, 27th	11am - 1pm, 2pm - 4pm	AB1 Prof. Holger Wache
Tuesday, 28th	9 am- 1pm	AB1 Prof. Holger Wache

April

Monday, 3rd	11am - 1pm, 2pm - 4pm	AB1 Prof. Holger Wache
Tuesday, 4th	9am - 12pm	AB1 Prof. Holger Wache

May

Tuesday, 2nd	9 am- 1pm	AB1 Prof. Knut Hinkelmann
Wednesday, 3rd	11am - 1pm, 2pm - 4pm	AB1 Prof. Knut Hinkelmann
Monday, 8th	11am - 1pm, 2pm - 4pm	AB1 Prof. Knut Hinkelmann
Tuesday, 9th	9 am- 1pm	AB1 Prof. Knut Hinkelmann

Module Information

Website

http://didattica.cs.unicam.it/doku.php?id=didattica:magistrale:kebi:ay_1617:main

Literatur

- ◆ No Books
- ◆ Reading material will be provided for download