



# 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

	Timeslots	Room	
<b>March</b>			
Monday 4th	2pm - 6pm	AB2	Prof. Wache/Hinkelmann
Tuesday 5th	10am - 1pm	AB2	Prof. Holger Wache
Monday 18th	2pm - 6pm	AB2	Prof. Holger Wache
Tuesday 19th	10am - 1pm	AB2	Prof. Holger Wache
<b>April</b>			
Monday 8th	2pm - 6pm	AB2	Prof. Holger Wache
Tuesday 9th	10am - 1pm	AB2	Prof. Holger Wache
<b>May</b>			
Monday 6th	2pm - 6pm	AB2	Prof. Knut Hinkelmann
Tuesday 7th	10am - 1pm	AB2	Prof. Knut Hinkelmann
Monday 13th	2pm - 6pm	AB2	Prof. Knut Hinkelmann
Tuesday 14th	10am - 1pm	AB2	Prof. Knut Hinkelmann
<b>June</b>			
Monday 3rd	2pm - 6pm	AB2	Prof. Knut Hinkelmann
Tuesday 4th	10am - 1pm	AB2	Prof. Knut Hinkelmann

# Module Information

## Website

[http://didattica.cs.unicam.it/doku.php?id=didattica:magistrale:kebi:ay\\_1819:main](http://didattica.cs.unicam.it/doku.php?id=didattica:magistrale:kebi:ay_1819:main)

## Literatur

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