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

- Business Intelligence & Data Warehouse
- Reporting and Data Analysis
- Machine Learning: Learning Decision Trees
- Case-Based Reasoning
- Neuronal Networks



Module Organization

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



	Timeslots		Room	
March				
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
April				
Monday 8th		2pm - 6pm	AB2	Prof. Holger Wache
Tuesday 9th		10am - 1pm	AB2	Prof. Holger Wache
May				
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
June				
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

Literatur

- No Books
- Reading material will be provided for download