# Formal Concept Analysis Welcome and Organizational Issues

Sebastian Rudolph

Computational Logic Group Technische Universität Dresden

# Agenda

Organization

Overview

# Organization

### Lectures and Exercises

lecture Monday, 14:50 – 16:20, room APB E005

hands-on exercise Monday, 9:20 - 10:50, room APB E005

## Course Web Page

https://goo.gl/BZ40gt

#### Contact

Sebastian Rudolph sebastian.rudolph@tu-dresden.de, room 2035, scheduled individually ...or at the Open House

# Organization

#### hands-on exercise means

- autonomous work on the practice sheet in small teams of 3-4 students, under supervision
- no general repetition of lecture material
- no demonstration of the sample solution (will be provided later)

## necessary for that is

- making notes during the lecture
- performing autonomous follow-up course work before the exercise
- bringing material and your notes to the exercise
- developing own activity

# Organization

## Why this exercise concept?

- active development of the lecture material is more effective
- discovering relationships in the material
- learning structured thinking and autonomous working
- learning team work
- learning to explain things
- exercise for the exams ;-)
- You have finished your study of ... Your personal strengths include pro-activity and team work, you are communicative and willing to cooperate. (typical job advertisement)

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- I Contexts, Concepts, and Concept Lattices
  - Concept Lattices
  - Multi-valued Contexts and Conceptual Scales
- II Closure Systems and Implications
  - Closure Systems
  - Implications
- III Knowledge Discovery
  - 6 Attribute Exploration
  - Rule Exploration
  - Attribute Exploration with Background Knowledge
- IV Extensions of FCA
  - Triadic Formal Concept Analysis