## Formal Concept Analysis Welcome and Organizational Issues

Sebastian Rudolph

Computational Logic Group Technische Universität Dresden

3

通 ト イヨ ト イヨト

# Organization

### Lectures and Exercises

lecture Monday, 11:10 – 12:40, room APB E005 hands-on exercise Monday, 9:20 – 10:50, room APB E005

#### Course Web Page

https://iccl.inf.tu-dresden.de/web/Introduction\_to\_ Formal\_Concept\_Analysis\_(WS2017)

### Contact

Sebastian Rudolph sebastian.rudolph@tu-dresden.de, room APB 2035.

• • = • • = •

# 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)

- E - - E -

### Overview

Organization

I Contexts, Concepts, and Concept Lattices

- Concept Lattices
- Ø Multi-valued Contexts and Conceptual Scales
- II Closure Systems and Implications
  - 3 Closure Systems
  - Implications
- III Knowledge Discovery
  - 6 Attribute Exploration
- IV Extensions of FCA
  - Triadic Formal Concept Analysis