

Science of Computational Logic – Introduction

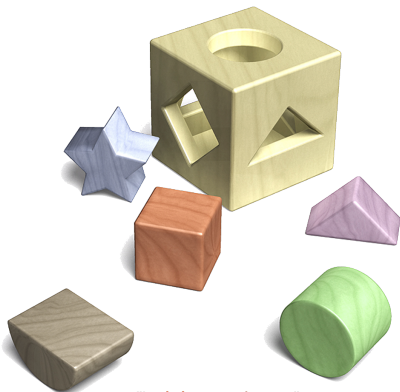
Steffen Hölldobler

International Center for Computational Logic

Technische Universität Dresden

Germany

- ▶ **Overview**
- ▶ **Content**
- ▶ **Literature**



"Logic is everywhere ..."



Overview



Content of Lecture

- ▶ **Description Logics**
- ▶ **Equational Logic**
- ▶ **Actions and Causality**
- ▶ **Deduction, Abduction, and Induction**
- ▶ **Non-Monotonic Reasoning**
- ▶ **Machine Learning**
- ▶ **Human Reasoning**



Literature

- ▶ **A manuscript is available**
- ▶ **In each chapter relevant secondary literature is specified.**
- ▶ **I expect you to study secondary literature.**
- ▶ **A web page for the literature will be generated.**

