

Seminar: Satisfiability Checking

SS 2018

April 17, 2018

Dates

Relevant dates (All deadlines are strict):

- ▶ **27.04.2018** Contact your supervisor
- ▶ **11.05.2018** Prepare sources, outline of the paper
- ▶ **01.06.2018** Complete your paper
- ▶ **15.06.2018** Paper final version
- ▶ **29.06.2018** Complete your talk
- ▶ **19./20.07.2018** Seminar

Deliverables

During the semester you will prepare

- ▶ a paper (10 pages, german/english) and
- ▶ a talk summarizing your results (25 minutes, german/english).

You can use our template for your paper (ask supervisor).

Topics

The available topics are

1. Minimal Unsatisfiable Cores
2. Difference Logic
3. Subtropical Satisfiability
4. Linearization
5. Interval Constraint Propagation
6. Model-Constructing Satisfiability
7. SMT Solver for Verifying Deep Neural Networks
8. Encoding Planning Problems into SMT

Topics

The available topics are

1. Minimal Unsatisfiable Cores (Gereon)
2. Difference Logic (Rebecca)
3. Subtropical Satisfiability (Stefan)
4. Linearization (Erika)
5. Interval Constraint Propagation (Johanna)
6. Model-Constructing Satisfiability (Erika)
7. SMT Solver for Verifying Deep Neural Networks (Francesco)
8. Encoding Planning Problems into SMT (Francesco)