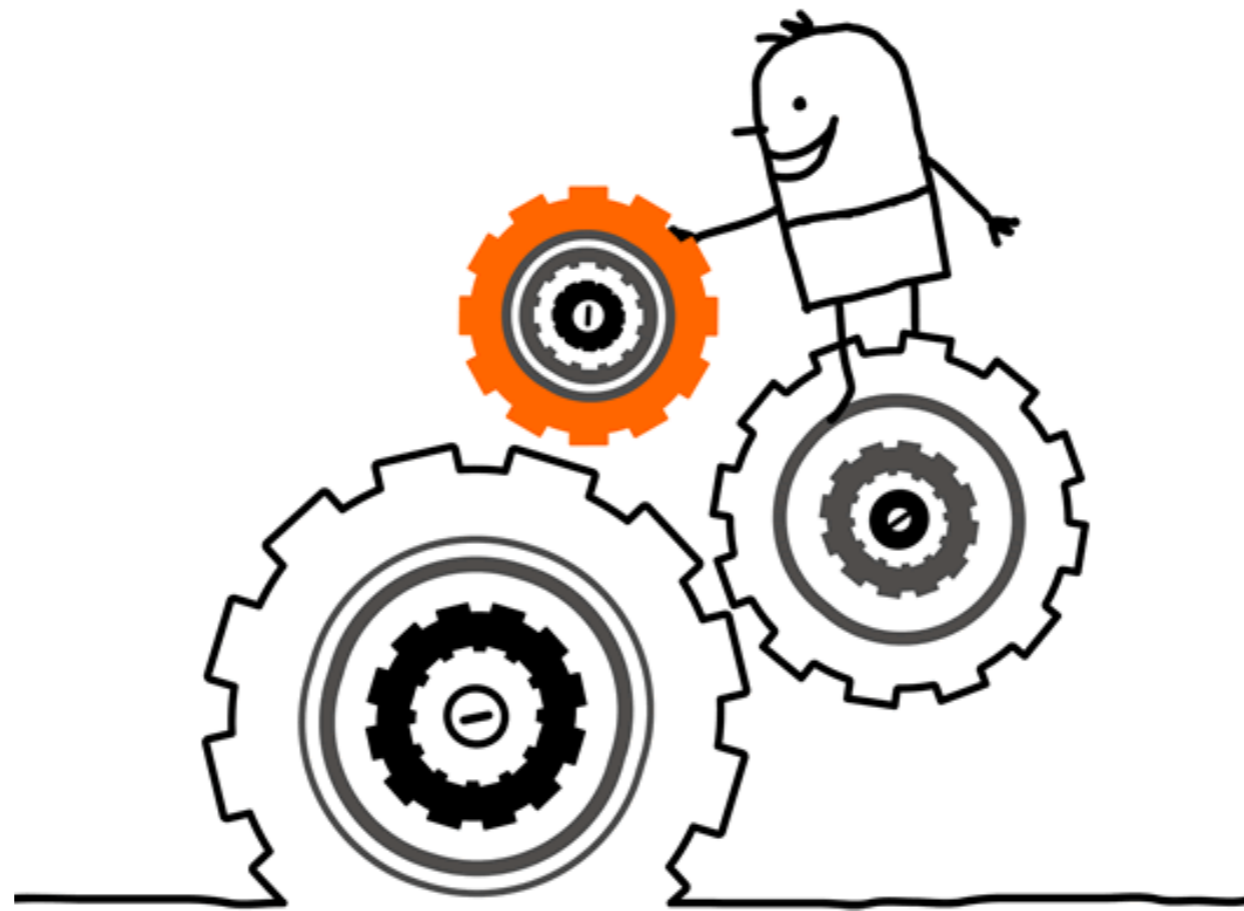


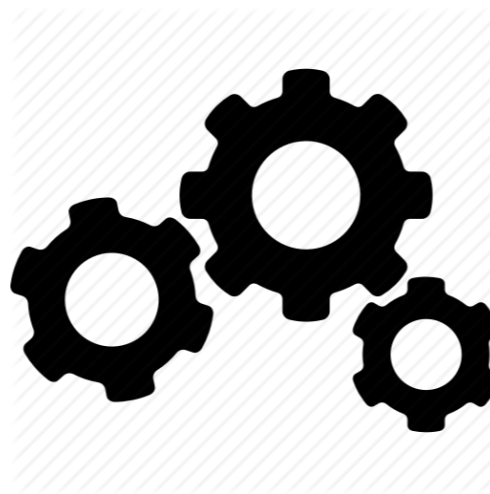
Program Synthesis

Seminar in Summer Semester 2020

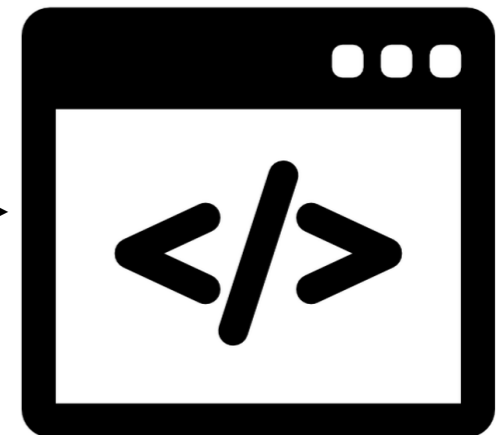


What is program synthesis?

Spec



Program



Where can we use it?



Program Synthesis

Reactive

Spec: Temporal Logic formula

Result: automata describing reactive system

Functional

Spec: different variations

Result: program code

Find a correct program from the candidate space

Organisation

- Block seminar: March 30 - April 3, time TBD
- Every session: 2-3 papers presented + discussion round
- Read ca.15 papers (in total)

Expected Deliverables

- **Presentation:** 25 minutes

submit slides afterwards

- **Final report:** a comprehensive survey of all papers discussed during the seminar

7-9 pages excluding references

use provided Tex template

Questionary

<https://forms.gle/WrTJADHau44C5KRY7>

link is available on our website

<https://www.in.tum.de/en/i02/teaching/summer-semester-20/seminars/program-synthesis/>