(Recent) Advances in Model Checking
first meeting

Maximilian Weininger ● Stefanie Mohr ● Jan Kretinsky

Outline

Topic Overview

Grading and Expectations

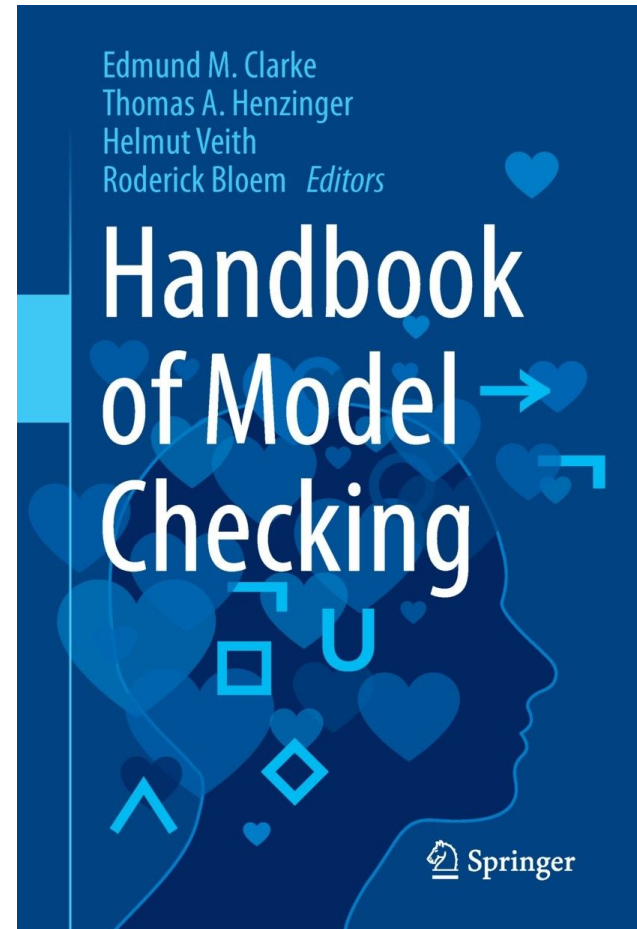- Written Work, Presentation, Discussion

Discussion

- Suggested topics
- Schedule

Topic - Overview

Chapters of the book

"**Handbook of Model Checking**"

One person - one chapter - one supervisor

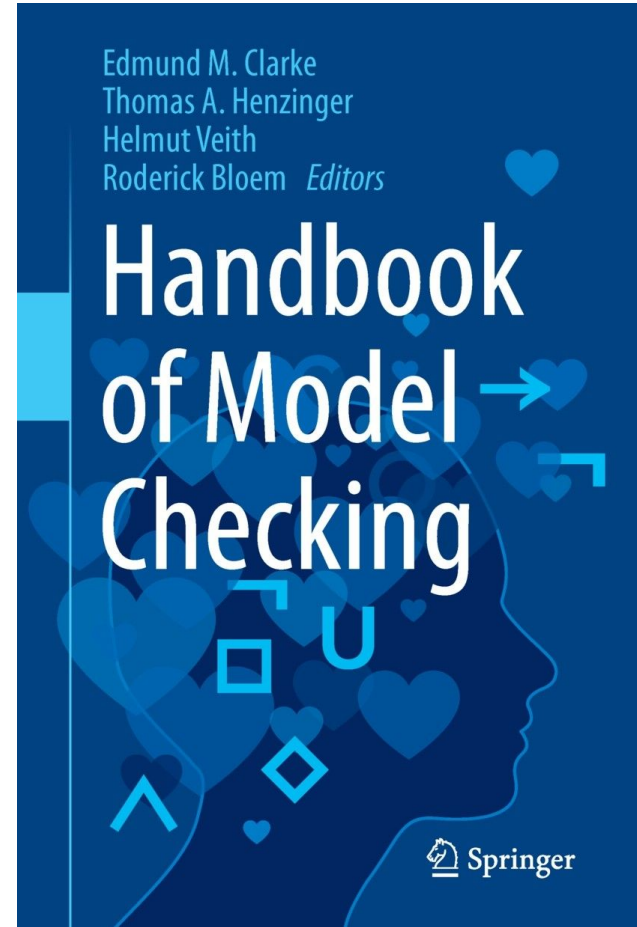https://link.springer.com/content/pdf/10.1007/978-3-319-10575-8.pdf

Topic - Overview

Chapters of the book

"**Handbook of Model Checking**"

One person - one chapter - one supervisor

Important: It can be only a part of a chapter!

Topic - Overview

- First meeting (31.10.): introduction and scheduling
- Second meeting (TBD): example talk
- Lectures (TBD): (bi-)weekly all over the semester

In between: at least two meetings with your supervisor

Introduction	Example Talk			Lecture 1		Lecture 2				Lecture 3		Lecture 4		Lecture 5
31.10.	7.11.	14.11.	21.11.	28.11.	5.12.	12.12.	19.12.	26.12.	2.1.	9.1.	16.1.	23.1.	30.1.	6.2.

Grading and Expectations

We expect you to attend all lectures, including the ones **after** your talk (not attending will result in failing the seminar)

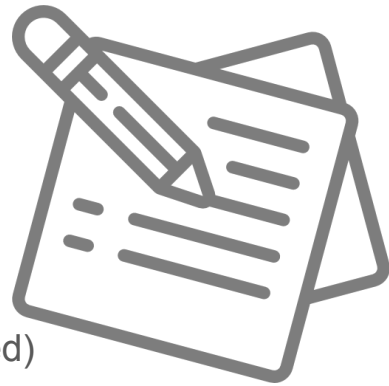Your final grade will be determined from

Written work (40%)

Presentation (40%)

Discussions (20%)

Written Work

- Send **one week before** presentation
- 2-4 pages extended abstract (Fontsize 11, Latex template will be provided)
- Basis for the talk
- Basis for the listener to prepare questions
- Suggested structure (can and should be discussed with the supervisor)
    - Motivation
    - Problem statement
    - Preliminaries
    - Outlook to the talk

Written Work - Grading Criteria

- Subject knowledge
- Subject correctness
- Structure
- Story
- Visuals
- Mechanics
- Scientific conduct

Presentation

- 25-30min oral presentation
- supported by slides (or whiteboard if you dare)
- present an interesting selection of your chapter (can and should be discussed with your supervisor)

Presentation - Grading Criteria

- Subject knowledge
- Subject correctness
- Structure
- Story
- Visuals
- Mechanics
- Scientific conduct
- Timing
- Verbal skills (enthusiasm, speaking skills)
- Nonverbal skills (eye contact, body language, poise)

Discussion

- As participant
    - Send two questions per talk (based on abstract)
    - Participate in the discussion
- As chair
    - Introducing speaker
    - Timing of the talk
    - Leading discussion

Discussion - Grading Criteria

- Attendance
- Questions
- Participant - Wortbeitrag
- Chairing

Suggested Topics

Steffi: 3, 4, 13, 28

Christoph: 21.3

Marta: 4, 10, 11, 21, 22, 27, 29, 30

Maxi: 2-6, 12, 19, 23, 24, 27, 28

Bala: 4, 17, 18, 21, 27, 29

Kush: 2-8, 13, 14, 27-29

Muqsit: 14, 27, 28

Potential supervisors per chapter:

Five: 4, 27
Three: 3, 21, 28, 29
Two: 2, 5, 6, 13, 14
One: 7, 8, 10, 11, 12, 17, 18, 19, 22, 23, 24, 30

Schedule

- First meeting (31.10.): introduction and scheduling
- Second meeting (TBD): example talk, selection of topics
- Lectures (TBD): (bi-)weekly all over the semester

In between: at least two meetings with your supervisor

Introduction	Example Talk					Lecture 2				Lecture 3	Lecture 4		Lecture 5
31.10.	7.11.	14.11.	21.11.	28.11.	5.12.	12.12.	19.12.	26.12.	2.1.	9.1.	16.1.	23.1.	30.1.	6.2.