

This afternoon's programme

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Outline

- ▶ Introduction into methods of formal verification (presented by Hongyang): Overview of MCMAS and PRISM

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- ▶ Pursuit Evasion strategies by model checking (presented by Hongyang)

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- ▶ How to use model checking methods in engineering problems?
- ▶ Choice of abstractions of the environment are crucial for complexity reduction.
- ▶ Complex environments cannot be dealt with without complex decision making !
- ▶ Would runtime verification reduce verification complexity of engineering systems?

Our model checkers

Hongyang starts with introduction to model checking languages which we like to use.