

Prof. Bernd Finkbeiner, Ph.D.  
Rayna Dimitrova  
Klaus Dräger  
Hans-Jörg Peter  
Sven Schewe

**Seminar**

**Games in Verification and Synthesis**

Topic Assignment

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<b>Week 1: Parity Games (May 15)</b>	
Algorithms for solving parity games Piotr Danilewski	Bernd Finkbeiner
<b>Week 2: Verification I (May 29)</b>	
Model checking games Walid Haddad	Klaus Dräger
<b>Week 3 (June 5) – cancelled</b>	
<b>Week 4: Verification II / Incomplete Information (June 12)</b>	
Simulation games Michael Maurer	Klaus Dräger
Synthesis under incomplete information Andreas Augustin	Rayna Dimitrova
<b>Week 5: Verification III (June 19)</b>	
Module checking Maël Hörz	Hans-Jörg Peter
Alternating-time model checking Fabienne Eigner	Hans-Jörg Peter
<b>Week 6: Distributed Synthesis (June 26)</b>	
Synthesis of distributed systems Jonathan Türpe	Sven Schewe
Bounded Synthesis Steffen Metzger	Bernd Finkbeiner
<b>Week 7: Timed Systems / Synthesis (July 3)</b>	
Timed games Patrick Jungblut	Hans-Jörg Peter
Synthesis of asynchronous systems Christine Rizkallah	Sven Schewe
<b>Week 8: Timed Interfaces, Abstraction I (July 10)</b>	
Timed interfaces Stefan Stattelmann	Hans-Jörg Peter
Counterexample-guided control Daniel Dahrendorf	Rayna Dimitrova
<b>Week 9: Abstraction II (July 17)</b>	
Three-valued abstractions of games Georg Neis	Rayna Dimitrova
Abstraction refinement for multi-agent systems Susanne Becker	Rayna Dimitrova