



## CASUS Seminar on Numerical Techniques and Algorithms



### An Introduction to Software Verification using Model Checking Techniques

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**Time:** 10:00 – 12:00 CEST

**Location:** CASUS Lecture Room, Görlitz

#### **Abstract:**

As embedded systems are becoming more and more common in our lives, the importance of their safe and fault-free operation is becoming even more critical.

Model checking can prove both the presence and absence of certain errors in software systems, making it suitable for verifying safety-critical systems.

This field has made a tremendous progress in the last decades, providing a great set of fast and effective algorithms. In this talk, we are going to walk through some of the most well-known model checking algorithms and some of the problems one can face when implementing a model checking tool.