

EINLADUNG

Zeit: Donnerstag, 24.07.2008, 16.30 Uhr

Ort: AH I, Ahornstr. 55

Referent: Dr. Ralf Huuck
National ICT Australia (NICTA)

Titel: Static Analysis Meets Model Checking

Abstract:

In the past software model checking has predominantly been used on the semantics level of a program and suffering from scalability issues. On the other hand static analysis is proven to be scalable, but on a rather shallow syntactic level. In this talk we present a new approach where model checking is used for solving static analysis problems, constraint solving is added to obtain extra precision and combined with the aforementioned model checking framework to get a more fine grained semantic model when needed. We present the key ideas as implemented in our tool Goanna and report on our experiences from analyzing source code packages containing millions of lines of code.