

INFORMATIK- SONDERKOLLOQUIUM

Einladung zum Vortrag von

Prof. Dr. Daniel Kröning
Oxford University

Verifying C++ programs that use the STL

We describe a flexible and easily extensible predicate abstraction-based approach to the verification of STL usage, and observe the advantages of verifying programs in terms of high-level data structures rather than low-level pointer manipulations. We formalize the semantics of the STL by means of a Hoare-style axiomatization. The verification requires an operational model conservatively approximating the semantics given by the C++ standard. Our results show advantages (in terms of errors detected and false positives avoided) over previous attempts to analyze STL usage.

Zeit: Montag, 16. März 2009, 17:30 Uhr
Ort: Seminarraum 131, Informatik-Hauptgebäude (Geb. 50.34)
Am Fasanengarten 5, 76131 Karlsruhe

