

informatik-Kolloquium

Der Fachbereich Informatik der Johannes Kepler Universität Linz¹ lädt in Zusammenarbeit mit der Österreichischen Gesellschaft für Informatik (ÖGI) zu folgendem Vortrag ein:

Daniel Kroening (Oxford University)

Model Checking C++ Programs that use the STL

Donnerstag, 26. November 2009, 9.00 – 10.00 Uhr
Johannes Kepler Universität Linz, Hörsaal HS 9

Abstract:

We present a formalization of the most relevant abstract data types provided by the standard template library (STL). We also provide an operational model, and outline the proof that the operational model is conservative with respect to our formalization. We conclude with experimental evidence that this model enables the automated verification of significant C++ programs.

Daniel Kroening received the M.E. and doctoral degrees in computer science from the University of Saarland, Saarbruecken, Germany, in 1999 and 2001, respectively. He joined the Model Checking group in the Computer Science Department at Carnegie Mellon University, Pittsburgh PA, USA, in 2001 as a Post-Doc.

He was appointed as an assistant professor at the Swiss Technical Institute (ETH) in Zurich, Switzerland, in 2004. Since 2007, he is a Reader at the Computing Laboratory at Oxford University and a fellow of Magdalen College, Oxford. His research interests include automated formal verification of hardware and software systems, decision procedures, embedded systems, and hardware/software co-design.

*Univ. Prof. Dr. Armin Biere
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¹ Der Fachbereich besteht aus folgenden Instituten:

Anwendungsorientierte Wissensverarbeitung (FAW), Bioinformatik, Computational Perception, Computergrafik, Computer-Architektur, Formale Modelle und Verifikation, Informationsverarbeitung und Mikroprozessortechnik (FIM), Integrierte Schaltungen, „integriert studieren“, Pervasive Computing, Systemsoftware, Systems Engineering und Automation, Telekooperation