Department of Computer Science
Research Focus
"Intelligent Formal Systems"

TECHNISCHE UNIVERSITÄT DRESDEN

Colloquium

Within the seminar of the Research Focus, the Ph.D. programme "Specification of discrete processes and systems of processes by operational models and logics" presents a talk by

Dr. Hendrik Tews
Institute for Theoretical Computer Science
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about

"Verifying Duff's Device: A Simple Compositional Denotational Semantics for Goto and Computed Jumps"

Abstract: This talk presents a compositional denotational semantics for goto statements. The semantics interacts well with the idioms of structural programming, like if-statements and while-loops. It faithfully models jumps into and out of nested blocks and it can also handle computed jumps (for instance in the form of C's switch-statement). The underlying mathematics is fairly simple: It only uses total functions of ordinary set theory and disjoint unions. Neither domain theory nor continuous functions are required. The semantics is used to verify Duff's device, a famous example of the (ab-) use of computed jumps in structural programming.

Date:	04.01.2005
Place and time:	Department of Computer Science, Room: 151, 1.15 pm

All interested persons are invited to attend!

Prof. Dr.-Ing. habil. Heiko Vogler