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

Dipl.-Inf. Enrico Bormann
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about

"A combination of formal paradigms for the specification of the syntax of application languages"

Abstract: To specify the syntax of a formal language is a common problem in computer science. To ease to task of writing such syntax specifications, different specification formalisms were developed that use concepts from attribute grammars, logics, and the functional programming paradigm. In the talk, a specification language will be introduced that combines the two formalism of *macro attribute grammars* and *monadic second-order logic over trees* on the base of the functional programming paradigm. The definition of its declarative semantics will be discussed with a short argument of the corresponding problem of so-called circular specifications. Furthermore, it will be described how known evaluation procedures of the involved formalisms can be adapted to get an operational semantics of the combined formalism.

Date:	15.11.2005
Place and time:	Hans-Grundig-Str., Room: GRU 151, 1.15 pm

All interested persons are invited to attend!

Prof. Dr.-Ing. habil. Heiko Vogler