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

Jonathan Ben-Naim
Laboratoire d'Informatique Fondamentale de Marseille, CNRS
France

about

"Preferential and Preferential-Discriminative Consequence Relations"

Abstract: The theory of preferential consequence relations has been investigated extensively in the classical context, where copies of classical valuations serve as the terms of the preference relation. The first purpose is to extend the theory to preferential consequence relations in certain three/four-valued contexts, well-known as the paraconsistent logics J_3 and FOUR. We give characterizations of several families of preferential consequence relations in these two contexts. Our second and main purpose is to investigate a qualified version of preferential consequence, which we call preferential-discriminative consequence. This is defined to hold between a set T of formulae and formula a iff $T \mid\!\sim a$ but $T \mid\!\not\sim \neg a$, where $\mid\!\sim$ is the plain relation. We provide characterizations of several families of such preferential-discriminative consequence relations for all of the classical, three, and four-valued contexts.

Date:	12.04.2005
Place and time:	Willersbau, Room: WIL C129, 1.15 pm

All interested persons are invited to attend!

Prof. Dr.-Ing. habil. Heiko Vogler