Informatik-Kolloquium

Rheinisch-Westfälische Technische Hochschule Aachen
Lehreinheit Informatik IV

EINLADUNG

Zeit: Donnerstag, 18. April 2002, 17.00 Uhr

Ort: Hörsaal AH I, Ahornstr. 55,

Referent: Prof. Dr. William H. Sanders, University of Illinois at Urbana-Champaign, USA

Thema: Building dependable and intrusion-tolerant distributed systems using the AQUA and ITUA architectures

Abstract:

This talk provides an overview of the AQuA and ITUA architectures, which are infrastructures for building dependable and intrusion-tolerant distributed systems. In particular, the AQuA and ITUA architectures provide dependable and intrusion-tolerant distributed objects through replication, where the type and degree of replication is managed dynamically, depending on the needs of applications. The architectures use gateways to provide fault-tolerant mechanisms and group communication services to standard CORBA applications transparently as directed by an application. This approach thus raises the level of abstraction at which a programmer thinks about fault and intrusion tolerance much higher, relative to existing dependability middleware, allowing an application programmer high-level control over the type of faults and intrusions that should be tolerated and the level of availability desired from a distributed object.

Es laden ein: Die Dozenten der Informatik