

## EINLADUNG

Zeit: **Montag**, 20. Juni 2005, 14.00 Uhr

Ort: AH 2, Ahornstraße 55

Referent: Herrn Dr. Heiko Mantel  
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Titel: "Information Flow Security: Modeling and Analysis"

Abstract:

For the development of secure information systems, it is essential that the security requirements are clearly specified. Requirements concerning confidentiality and integrity can often be adequately modeled using information flow properties. Moreover, these properties provide a basis for a rigorous security analysis. In this talk, I will describe my work on modeling and analyzing information flow security. I will introduce the Modular Assembly Kit for Security Properties, a framework for representing information flow properties in a uniform way. I will demonstrate how this framework facilitates the analysis of information flow properties. I exploited the framework to derive fundamental results, including a taxonomy of existing properties and sound analysis techniques. Finally, I will present recent work on a methodology for decomposing security requirements during a stepwise analysis process and the application of this methodology in a case study.

Es laden ein: Die Dozenten der Informatik