

Einladung

zum

ZHR - Kolloquium

Titel: Using Epidemics and Diffusion for Decentralized Monitoring and Control of Fully Distributed Systems

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Abstract:

The problem of monitoring and controlling large and fully distributed, dynamic and heterogeneous systems, like the Internet or peer-to-peer overlay networks, is a difficult task. Monitoring involves tracing different system parameters like average load, overall computational capacity available, maximum load (hotspots), etc. Control means changing some system parameters, e.g. a threshold, or multicasting a message (a command) to a subgroup of processes. In this talk recent experimental and analytical results are presented on applying epidemics-based protocols for detecting events and for group communication, and also a diffusion-based protocol for calculating different statistics of some system parameters, like average, variance and sum.

Ort: Willers-Bau C207

Zeit: Dienstag, den 25. November 2003, 10.00 Uhr

gez. Prof. Dr. W.E. Nagel

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